

E.P.K. DEC 5 1938

1.

COLOMBIAN SPECIMENS OF 1922

NAMED TO GENUS OR TO SPECIES BY E. P. KILLIP

NOVEMBER, 1938

NO.		NO.	
✓5005	<i>Tournefortia scabrida</i> H.B.K.	5504	<i>Crotalaria sagittalis</i> L.
✓5057	<i>Browallia</i>	5528	<i>Polygala</i>
5079	<i>Vismia</i>	5531	<i>Borreria tenella</i> (H.B.K.) C+S.
5147	<i>Conomorpha</i> (<i>fide Kew</i>)	5537	<i>Sobralia</i>
5179	<i>Solanum</i>	5538	<i>Epidendrum</i>
✓5215	<i>Elleanthus</i>	5610	<i>Solanum</i> A
✓5216	<i>Epidendrum</i>	✓5619	<i>Epidendrum</i>
✓5218✓	<i>Cassipourea</i>	5650	<i>Euphorbia</i> AHY
✓5233	<i>Hiraea platyptera</i> Pl. & Tr. Editor's sig	5663	<i>Rivina humilis</i> L.
5236	<i>Lonchocarpus</i>	5676✓	<i>Aphelandra</i>
5241	<i>Polygala</i>	5722✓	<i>Bocconia frutescens</i> L.
5256	<i>Sciadophyllum</i>	5744✓	<i>Gilibertia</i>
✓5263	<i>Diolaena</i>	5745	<i>Elleanthus</i>
5279	<i>Monolaena</i>	5749	<i>Elleanthus</i> AYO
5374	- <i>Solanum</i> A	5781✓	<i>Bomarea diffracta</i> Baker
✓5384	<i>Vernonia patens</i> HBK.	5787✓	<i>Bomarea patini</i> Baker
5422	<i>Solanum</i>	5851✓	<i>Commelina diffusa</i> Burm. f.
✓5430✓	<i>Ipomoea dealbata</i> (Mart. & Schlecht.) Hemsley.	5856	(<i>Varronia</i>) <i>Cordia</i> AHY lanceolata (Desv.) H.B.K.
5461	<i>Commelina diffusa</i> Burm. f.	5881	<i>Begonia</i>
5469	<i>Datura</i>	5882✓	<i>Cyclanthera</i>
5485	<i>Chelonanthus acutangulus</i> (R. & P.) Gilg	5883	<i>Begonia</i>
5489	<i>Habenaria</i>	5885	<i>Solanum</i>
5491	<i>Baccharis</i>	5900✓	<i>Phoradendron</i>
		5913	<i>Elleanthus</i> AO

<u>No.</u>			<u>No.</u>	
5939	Orchylillum		6503	Solanum A
5969	Jacquemontia AY <i>Apocynoides</i> <i>(S.C.) Urban.</i>		6507	Lepidium
5991	Furcraea		6511✓	Carex jamesonii Boott
6044	Solanum A		6519	<i>Psammisia graebneriana</i> Hoer.
6052	Utricularia		6526✓	Dendrophthora clavata (Benth.)
6058	Ipomoea AY		6533	Bomarea hirsuta concolor (Guf.) Killip.
6078	Solanum AY		6540	Drymaria gracilis C. & S.
6109	Cardiospermum H		6543	Juncus
6136	Dioscorea cariacea H. & B.		6567✓	Brachyotum
6202	Solanum AHY		6570✓	Carex
6208	Browallia A		6577	Tournefortia fuliginosa H.B.K.
6215	Ipomoea AY <i>federacea</i> (L.) Jacq.		6588	Solanum
6224	Ipomoea AY		6598	Monnieria
6228	Datura A		6600	Senecio
6249	Solanum AY		6610	Bomarea patini Baker
6272	Jussiaea AY		6611	Solanum
6297	Hypericum uliginosum HBK.		6641✓	<i>Dioscorea polygonoides</i> <i>martinicensis</i> (Spreng.)
6307	Sobralia		6642	Gnaphalium
6311	Hypericum uliginosum HBK.		6659	Geranium AY
6312	Epidendrum		6665	Heliotropium cf. submolle Klotzsch
6337	Helicarpus popayanensis HBK.		6667	Alchemilla aphanoides L.f.
6342	Befaria AY <i>phillyriaefolia</i> Benth.		6679✓	Stellaria cuspidata Willd.
6354	Commelina AH		6706✓	Phoradendron
6377	Bomarea Baker		6754	Hypericum laricifolium Juss.
6399	Solanum AY		6765	Hieracium
6420	Dahlia		6766	Elleanthus
6446✓	Phoradendron		6770	Gunnera magellanica Lam.
✓ 6453	Cardamine AH		6816	Cestrum A
✓ 6467	Epidendrum fimbriatum HBK.		6838	Tournefortia brevilibata Krause

<u>No.</u>		<u>No.</u>	
✓ 6870	Carex purdiei Boott	✓ 7110	Solanum
6878	Solanum AY	7127	Epidendrum
6891	Elleanthus	✓ 7138	Stellaria
6896	Solanum A	7144	Monnina
6903	Habenaria	7153	Solanum
6913	Sisyrinchium	7155	Oxalis AHY
✓ 6917	Alchemilla Purdiei Perry	7175	Senecio
✓ 6920	Hypericum laricifolium guss.	7182	Galinsoga
6921	Hypericum strictum HBK	7199	Rynchospora
6939	Hieracium	7205	Calpidisca
✓ 6954	Fuchsia - Cestrum mirabile Morton (type)	7206	Utricularia
6998	Elleanthus	7237	Cordia (I do not have this cited. EPK)
✓ 7022	Bomarea linifolia (H.B.K.) Baker	7245	Phoradendron
✓ 7042	Lupinus	7269	Monnina
✓ 7045	Monnina revoluta H.B.K.	7276	Rynchospora sp.
✓ 7049	Carex pichinchensis H.B.K.	✓ 7281	Smilax
7050	Hieracium	7364	Anthurium
✓ 7053	Carex pichinchensis H.B.K.	✓ 7376	Elleanthus
✓ 7054	Baccharis	7381	Bomarea patini Baker
7062	Lupinus	7381	" " "
7072	Brachyotum	7389	Solanum A
✓ 7076	Lupinus	7390	Monnina
7078	Lupinus	7399	Rynchospora - Carex humboldtiana Steud.
✓ 7081	Epidendrum fimbriatum H.B.K.	7400	Pernettya myrsinoides (H.B.K.) Zucc.
7088	Bomarea hirsuta (H.B.K.) Herb.	7403	Hypericum fuliginosum H.B.K.
7093	Datura	7407	Solanum A
7095	Tournefortia fuliginosa H.B.K.	7409	" A
7096 ✓	Phoradendron	✓ 7416	Epidendrum fimbriatum H.B.K.

No.		No.	
7418	Gaultheria <i>lotensis</i> Benth.	7994	Begonia
7431	"		
7447	Rubus <i>nubigenus</i> H.B.K.	8016	Bomarea <i>patini</i> Baker
7449	Solanum	8016	— " —
7453	Bomarea <i>crassifolia</i> Baker (also <i>B. hirsuta</i> (H.B.K.) Herl.)	8020	Monnina
7454	Laplacea <i>intermedia</i> Benth.	8025	Solanum AHY
7457	Pernettya <i>myrsinoides</i> (H.B.K.) Zucc.	8078	Tradescantia
7458	" - Gaultheria <i>foliosa</i> Benth.	8082 ✓	Lantana trifolia L.
7464	Solanum A	8141	Hypericum AY <i>uliginosum</i> H.B.K.
7470	Monnina	8175	" <i>thesifolium</i> H.B.K.
✓ 7491	Hypericum <i>Brathys</i> Lam.	8180	Ipomoea
7504 ✓	Deudorixphora	8207	Hypericum A
7536	Dioscorea <i>cavensis</i> R. Knuth.	✓ 8208	Diodia
7554	Solanum	8210	Hypericum euphorbioides ST. Hil.
7608	Elleanthus AYO	8220	Jussiaea AY
7609	"	8223	Utricularia
7610	Cayaponia <i>obscusibitacea</i>	8294	ferrugineum (HBK) Dcne. & Planch.
7614	Guadua	8316	Dendropanax - Sciadophyllum Dcne. & Pl. (H.B.K.)
✓ 7633	Carludovica	→ 8338	Solanum A
		8367	Tournefortia syringaeifolia
7636	Dioscorea	→ 8351	Solanum A (Vahl)
		8369	Tournefortia syringaeifolia Vahl
* 7656	Buddleia mollis H.B.K.	8392	Phoradendron AHY
7796	Solanum	8401	"
7801	Epidendrum	✓ 8406	Solanum
7833	Solanum AY	→ 8423	Cattleya
		8435	Tournefortia syringaeifolia Vahl
7834	Rubus <i>gianensis</i> Focke?	8466	Eugenia
7837	Begonia	8497	Dioclea <i>gianensis</i> Benth.
7949	Solanum	✓ 8501	Ipomoea <i>dealbata</i> (mont + Gal.) Hemsl.
7953	Elleanthus	8513	Ardisia
7963	Bomarea <i>hieronymi</i> Pax	8530	Alpinia
7964	Monnina	8532	Ipomoea AY
			Solanum AY

No.		No.	
9151	Geranium AY	9450	Stellaria
✓ 9174	Bomarea hazeni Killip	9476	Vernonia
9185	Hieracium	9492	Bomarea hazeni Killip
9192	Spigelia	9528 ✓	Lantana AH
9203	Solanum AY	9529 ✓	Sessea AHY <i>Acuminata</i> <i>franckey</i>
9210	Baccharis	9549	Bomarea oligantha Baker
9214	Solanum AY	9550	Cestrum A
✓ 9231	Rubus sellowii C. & S.?	→ 9555 9585	Tournefortia scabrida Recomia
9239	Solanum AY	9614	Croton AH
9242	Stellaria	9634	Heliconia
9318	Solanum AY	9635 ✓	Bomarea diffracta Baker
9319	Siparuna A	9657	Sobralia
✓ 9325	Bomarea diffracta Baker	9644	Senecio
✓ 9327	Carex jamesonii Boott	9678	Solanum AY
9329	Solanum AY	9690	Cucurbita - <i>Cucurbita</i>
✓ 9369	Bomarea patini Baker	9716	Bomarea polyneura Killip
✓ 9371	Tournefortia fuliginosa H.B.K.	9731	Dioscorea <i>sericea</i> P. Knuth
9372	Senecio	9734	Sobralia
✓ 9377	Bomarea granatensis M. Roemer	✓ 9744	Solanum
9382	Monnieria	9745	Solanum A
9386	Solanum A	9765 ✓	Carex pichinchensis H.B.K.
✓ 9401 ✓	Pilea flexuosa Wedd.	9774	Solanum A
9406	Epilobium AY	9788	Dendrophthora
9415	Dioscorea	9789	"
9420	Lupinus	9791	Stigmaphyllon <i>ruizianum</i> <i>nied.</i>
9421	Dioscorea	9792	Blepharodon
✓ 9422	Elleanthus linifolius Presl	9817	Escallonia
9423	Elleanthus AYO	9820	Senecio
→ 9432	Tournefortia fuliginosa H.B.K.		
9436	Stellaria	9822	"

<u>No.</u>		<u>No.</u>	
9833	Lupinus	10104	Acalypha
9872	Sisyrinchium	10105	"
9906	Alchemilla <i>holosericea</i> Perry	10106	"
9909	Ribes	10107	"
9957	Carex pichinchensis H.B.K.	10109	"
9960	Luzula A	10110	"
9961	Carex	10114	Bomarea oligantha Baker
9962	Sisyrinchium A	10116	Lantana trifolia L.
✓9969	Stellaria	10128	Tropaeolum <i>chrysanthum</i> Pl. + Lind (?)
✓9974	Cardamine	10143	Datura A
9986	Monnieria	10185	Solanum AY
9988	Hypericum <i>laricifolium</i> Guss.	10204	Asclepias curassavica L.
10008	Senecio cf. hypsocates Wedd.	10209	Solanum AY
✓10014	Hieracium	10215	" A
10015	Baccharis	10216 10218	" A
10018	Hieracium	10219	Ipomoea AY dealbata (Mort + Sal.) Hemsl.
10024	"	10222	" AY
10027	"	10235	Solanum A
10041	"	10235	" A
10050	"	10236	" A
10052	Draba	10237	Cestrum cuspidatissimum Francey
10057	Senecio	10239	Solanum A
10084	Bomarea linifolia (H.B.K.) Baker	10242	" AY
10085	" <i>hazeni</i> Killip	10243 10244	Funastrum AHY Tournefortia scabrida H.B.K.
10092	Cerastium A	10248	Solanum A
10094	Lepidium A	10253	" A
10095	" A	10259	" A
10100	Cestrum AY <i>tomentosum</i> L.	10264	" A
10102	Phoradendron	10265	" A
10103	Acalypha	10285	" A

<u>No.</u>			<u>No.</u>	
10293	Physalis		→ 10644	Tournefortia bicolor Sw.
			✓ 10646	Cestrum AHY
10298	Solanum	AY	10647	Browallia A
10305	"	AHY	✓ 10668	Hypericum AH
10338	"	A	✓ 10670	Macrocarpaea AH
10339	"	AY	10676	Lantana AH
10340		AY	→ 10688	Tournefortia scabrida H.B.K.
			10704	Solanum A
10346	Dombeya	AH	✓ 10740	Myrica pubescens Willd.
10355	Carex		10755	Physalis AY
✓ 10364	Epidendrum fimbriatum H.B.K.		10759	Solanum A
10383	Cardamine A		10764	" A
10386	Monnina multibracteata <i>chod.</i>		✓ 10768	Ranunculus AH
✓ 10388	Phyllanthus AH		✓ 10773	Solanum AH
10409	Solanum A		✓ 10782	Browallia
10477	Stellaria		✓ 10796	Asclepias curassavica L.
10478	Cardamine A		→ 10799	Tournefortia paniculata Cham.
			10849	Solanum AH
✓ 10498	Stellaria		10851	" AY
✓ 10516	Bomarea linifolia (H.B.K.) Baker		→ 10856	Tournefortia syringaefolia Vahl
			10862	Physalis AH
✓ 10518	Hypericum AH		10874	Oxalis AHY
10524	Desfontainea A		10883	Solanum AH
10525	Solanum A		✓ 10885	Tournefortia scabrida H.B.K.
✓ 10560	Epidendrum fimbriatum H.B.K.		✓ 10890	Ipomoea dealbata (Mort + Gal.) Henrsl.
10561	Alchemilla A		10909	Buddleia AH
10563	Geranium AY		10912	Solanum AY
✓ 10564	Hypericum strictum H.B.K.		→ 10914	Tournefortia scabrida H.B.K.
			10918	Metastelma AH
10570	Berberis AY		10925	Solanum AY
10586	Gnaphalium - Leontopodium		10930	" A
10596	Solanum A		10936	" AH
10609	" A		10937	" AY
10621	" A		✓ 10939	Tournefortia polystachya R. & P.

<u>No.</u>			<u>No.</u>	
10945	Solanum	A	11807	Besleria A
10945	"	A	✓11816	Spigelia AH
10951	Cardamine	A	11835	Senecio
10952	Solanum	AH	11841	Sisyrinchium iridifolium HBK.
10954	Fragaria	A	11867	Dioscorea <i>larecajensis</i> <i>eline</i>
10955	Solanum	A	11929	Hypericum
10971	"	AH	12001	Funastrum AH
→ 10979	Tournefortia bicolor Sw.			
10984	Solanum	AH	12012	Ipomoea AH <i>Pes-caprae</i> (L.) Sweet
10985	"	A	12061	" AY <i>Pes-caprae</i> (L.)
10989	Capsicum	AH	12069	Elytraria AH
11004	Solanum	AY	12068	Tecoma AHY <i>stans</i> (L.) H.B.K.
11027	Tournefortia bicolor Sw.		✓12088	Stellaria
11072	Acalypha cuspidata Jacq.		12148	Evolvulus AY <i>glaber</i> Spreng.
→ 11095	Tournefortia volubilis L. (sens.			Tournefortia volubilis L. (sens. lat.)
11161	Solanum	lat.)	12076	Tournefortia volubilis L. (sens. lat.)
✓ 11171	Stigmatophyllum <i>ecliptoides</i> Tr. & R.		11426	Tournefortia volubilis L. (sens. lat.)
→ 11245	Tournefortia cornifolia H.B.K.			Tournefortia angustiflora R. & P.
11249	Monnieria		11445	
✓ 11264	Croton AH			
11426	Tournefortia			Recent determinations made at Washington:
11456	Begonia AHY		5270. Dryopteris permollis Maxon & Morton	
✓ 11464	Solanum		7350. Passiflora popayanensis Killip? (barren)	
✓ 11467	Acalypha AHY		9085. Heliconia griggsiana L.B. Smith (type)	
✓ 11480	Solanum AHY		11298. Lepanthopsis acuminata Ames (type)	
11604	Bomarea kranzlinii Baker		11683. Dryopteris permollis Maxon & Morton	
11605	Guatteria			(U.S. only)
11638	Dioscorea			
11643	Elleanthus			
11654	Liparis AYO			
11689	Begonia			
✓ 11774	Echinocystis AHY			

*from
E.P. Killip*

COLOMBIAN PLANTS COLLECTED BY KILLIP & SMITH
Identified at Berlin

- In Herbarium*
5091. *Selaginella longissima* Bak.
✓ 5252. " *aff. Schmidtchenii* Hieron.
✓ 5449. " *radiata* (Aubl.) Bak.
✓ 5673. " *geniculata* (Presl.) Spring
✓ 6687. " *Poeppigiana* (Hook. & Grev.) Spring
✓ 8717. " *costaricensis* Hieron.
✓ 8958. " *leptolepharis* Bak.
✓ 8959. " "
✓ 8991. " *Poeppigiana* (Hook. & Grev.) Spring
10137. " "
✓ 11794. 11497 " *Moritziana* Spring
✓ 11811. " *anceps* Spring
14830. " *pedata* Klotsch.
✓ 14843. " "
14872. " *jungermannoides* (Gaud.) Spring
15484. " *Hoffmannii* Hieron.
16024. " *radiata* (Aubl.) Bak.
16567. " *mnioides* (Lieb.) A. Br.
17012. " *Bangii* Hieron.?
18114. " *Poeppigiana* (Hook. & Grev.) Spring
18280. " *radiata* (Aubl.) Bak.
18348. " "
18357. " *Poeppigiana* (Hook. & Grev.) Spring
19096. " *mnioides* (Lieb.) A. Br.
19261. " "
20402. " *Poeppigiana* (Hook. & Grev.) Spring
20943. " *Lindigii* A. Br.

20934

- ✓ 6743. *Eurya canescens* (H. & B.) Blume
✓ 14306. *Psidium guayara* L.
✓ 14984. *Psidiopsis Moritziana* Berg.
✓ 15402. " " "
✓ 15457. *Psidium Friedrichsthalianum* (Berg.) Ndzu.
✓ 15463. *Psidiopsis Moritziana* Berg.
✓ 15472. *Myrcia Gollmeriana* Berg.
✓ 16247. *Psidium Lehmannii* Diels
✓ 16263. *Eugenia* aff. *Benthamii* Berg.
✓ 16333. *Psidiopsis Moritziana* Berg.
✓ 16706. *Eugenia* sp.
✓ 16840. *Psidiopsis Moritziana* Berg.
✓ 17426. *Eugenia* aff. *fragrans* Willd.
✓ 18154. *Eugenia* aff. *andina* Berg.
✓ 19477. *Pisidopsis Moritziana* Berg.
✓ 19633. *Eugenia triquetra* Berg.
✓ 19670. " sp. (sterile)
✓ 19688. *Eucalyptus globulus* Labill.
✓ 19821. *Myrcia caracasana* Berg.
✓ 19882. *Eugenia* aff. *mariquitensis* Berg.
✓ 19917. " cfr. *limbata* (H. B. K.) DC.
✓ 20118. *Myrcia cucullata* Berg.
✓ 20829. *Eugenia* cfr. *sericiflora* Benth.

May 24, 1928

Determinations made at the Gray Herbarium,

Oct. 5, 1931.

By B. L. Robinson

KILLIP & SMITH

- 17269 Stevia Penellii Robinson
17398 " " "
17908 " " "
21568 Eupatorium persicifolium HBK.
21990 " " "
22163 " " "
22279 " leptocephalum DC., var. hypomalacum Robinson
22303 Ophryosporus piqueroides (DC.) Benth.
22322 Eupatorium Sternbergianum DC.
22343 Ageratum conyzoides L.
22447 Eupatorium crenulatum Spreng.
22461 " leptocephalum DC., var. hypomalacum Robinson
22555 Adenostemma Lavenia (L.) Ktze.
22630 Schistocarpha oppositifolia (Ktze.) Rydb.
22655 " " "
22685 Eupatorium inulaefolium HBK., f. suaveolens (HBK.) Hieron.
22859 Schistocarpha oppositifolia (Ktze.) Rydb.
23121 Eupatorium leptocephalum DC., var. hypomalacum Robinson
23272 " persicifolium HBK.
23321 " Volkensii Hieron.
23384 " laevigatum Lam.
23392 " " "
23401 Mikania cordifolia (L. f.) Willd.
23444 Schistocarpha oppositifolia (Ktze.) Rydb.
23491 Adenostemma Lavenia (L.) Ktze.
23570 Eupatorium macrophyllum L.
23573 " microstemon Cass.
23577 Ageratum conyzoides L.
23546 Eupatorium macrophyllum L.
23688 Ageratum conyzoides L.
23701 Schistocarpha oppositifolia (Ktze.) Rydb.
23754 Eupatorium laevigatum Lam.
23826 Schistocarpha oppositifolia (Ktze.) Rydb.
23844 Mikania psilostachya DC.
24273 Eupatorium nemorosum Klatt
24383 " leptocephalum DC.
24677 Ageratum conyzoides L.
24774 Mikania psilostachya DC.
24909 Schistocarpha oppositifolia (Ktze.) Rydb.
24981 Eupatorium laevigatum Lam.
24991 Mikania cordifolia (L. f.) Willd.
25004 " psilostachya DC.
25013 " Ruiziana Poepp.
25037 Eupatorium ivaeifolium L., var. hirsutum Hassl.
25187 Adenostemma Lavenia (L.) Ktze.
25191 Eupatorium macrophyllum L.
25215 " nemorosum Klatt
25324 " macrophyllum L.
25712 Ageratum conyzoides L., var. inaequipaleaceum Hieron.
25793 Eupatorium nemorosum Klatt

Killip & Smith (det. by B. L. R.) cont.

- 25852 *Eupatorium nemorosum* Klatt
 26344 *Ageratum conyzoides* L.
 26616 *Eupatorium macrophyllum* L.
 29232 *Mikania micrantha* HBK.
 29851 *Eupatorium microstemon* Cass.
 30471 *Mikania micrantha* HBK.

Pennell -- Chile -- 1925

- 13553 *Stevia cuzcoensis* Hieron.
 13622 " " "

Pennell -- Determined by C. A. Weatherby
 12534 *Hymenophyllum fuciforme* Sw.

- 12706 " *dentatum* Cav.
 12529 " " "

-- KILLIP & SMITH

- 21948 *Luzula racemosa* Desv., var. *humilis* (Buchen.) Castil.
 21995 *Juncus imbricatus* Laharpe, var. *Lechleri* (Steud.) Buchen.

Determined by L. B. Smith

- 11733 *Aechmea dactylina* Bak. (Pennell & Killip -- Colombia, '22.)
 11736 *Vriesia paniculata* (L.) Mez " " "
 7560 & 8002 *Thecophyllum Mosquerae* (Wittm.) Mez " "
 15002 *Puya floccosa* (Regel) Morr. (Killip & Smith)

- 21861 *Guzmania Weberbaueri* Mez (Hitchcock -- Ecuador)

Killip & Smith -- Determined by R. Bacigalupi

- 14519 *Cuphea repens* L.
 15032 " *callosa* Bac. n. sp. TYPE
 15141 " *gracilis* HBK.
 15168 " *antisyphilitica* HBK.
 15542 " *origanifolia* Cham. & Schlecht.
 16012 " " " "
 16542 " *serpyllifolia* HBK.
 16860 " " "
 17134 " *origanifolia* Cham. & Schlecht.
 18004 " *dipetala* (L. f.) Koehne
 18276 " *origanifolia* Cham. & Schlecht.
 20147 " *dipetala* (L. f.) Koehne
 20485 " " " "
 20837 " *micrantha* HBK.
 21127 " *serpyllifolia* HBK.

Pennell et al.

- 5508 *Cuphea strigulosa* HBK., subsp. *opaca* Koehne
 6364 " " " "
 11582 " *carthagagenensis* (Jacq.) Macbr. (*C.balsamona* Cham. & Sch.)
 11185 " *racemosa* (L. f.) Spreng.

KILLIP & SMITH COLOMBIAN COLLECTION, 1926-27

Determined by E. P. Killip

- ✓14026 *Cordia alba* (Jacq.) R. & S.
 ✓14111 " *sebestena* L.
 ✓14178 " *alba* (Jacq.) R. & S.
 ✓14466 " *sebestena* L.
 ✓14707 " *alba* (Jacq.) R. & S.
 ✓14824 " *ferruginea* (Lam.) R. & S.
 ✓14947 " " "
 ✓15000 " *curassavica* (Jacq.) R. & S.
 ✓15005 " *lanata* H. B. K.
 ✓15376 " *ferruginea* (Lam.) R. & S.
 ✓15505 " *floribunda* (Desv.) Spreng.
 ✓16108 " *cylindrostachya* (R. & P.) R. & S.
 ✓16174 " *corymbosa* (L.) G. Don
 ✓16219 " *curassavica* (Jacq.) R. & S.
 ✓16273 " " "
 ✓16336 " *ferruginea* (Lam.) R. & S.
 ✓16475 " *floribunda* (Desv.) Spreng.
 ✓16623 " *cylindrostachya* (R. & P.) R. & S.
 ✓16829 " *floribunda* (Desv.) Spreng.
 ✓18919 " *cylindrostachya* (R. & P.) R. & S.
 ✓19057 " *curassavica* (Jacq.) R. & S.
 ✓19349 " *ferruginea* (Lam.) R. & S.
 ✓19384 " *sericicalyx* A. DC.
 ✓19515 " *cylindrostachya* (R. & P.) R. & S.
 ✓19794 " " " "
 ✓20019 " " " "
 ✓20031 " " " "
 ✓20041 " " " "
 ✓20175 " " " "
 ✓20192 " " " "
 ✓20511 " *ferruginea* (Lam.) R. & S.
 ✓20543 " *cylindrostachya* (R. & P.) R. & S.
 ✓20754 " *ferruginea* (Lam.) R. & S.
 □ 20849 " " " "
 ✓20942 " *globosa* (Jacq.) H. B. K.
 ✓21021 " " " "
 21031 " *sebestena* L.
 ✓21058 " *curassavica* (Jacq.) R. & S.
 ✓21067 " *macrostachya* (Jacq.) R. & S.
 ✓21068 " *alba* (Jacq.) R. & S.
 ✓21104 " " " "

January 20, 1930.

KILLIP & SMITH COLOMBIAN COLLECTION, 1926-27

Determined at the New York Botanical Garden

- 2
g
- ✓14004 *Batis maritima* L.
 - ✓14076 *Ayenia magna* L.
 - ✓14093 *Chrysobalanus icaco* L.
 - ✓14129 *Chiococca micrantha* Johnst.
 - ✓14170 *Tragia volubilis* L.
 - ✓14197 *Ayenia magna* L.
 - ✓14234 *Talinum triangulare* (Jacq.) Willd.
 - ✓14348 *Cedrela odorata* L.
 - 14360 *Trichostelum ambiguum* (Schwaegr.) Par.
 - 14361 *Octoblepharum albidum* (L.) Hedw.
 - ✓14366 *Casearia nitida* Jacq.
 - ✓14387 *Zizyphus jujuba* Lam.
 - ✓14586 *Talinum triangulare* (Jacq.) Willd.
 - ✓14674 *Morisonia americana* L.
 - ✓14723 *Talinum triangulare* (Jacq.) Willd.
 - ✓14729 *Aegiphila paniculata* Moldenke
 - ✓14730 *Polypodium crassifolium* L.
 - ✓14836 *Alsophila blechnoides* (Rich.) Hook.
 - ✓14838 *Trichomanes pinnatum* Hedw.
 - ✓14848 *Miconia trichophora* Gleason (type)
 - ✓14849 *Aegiphila sylvatica* Moldenke
 - ✓14971 " *stricta* Moldenke
 - ✓15020 *Eugenia jambos* L.
 - ✓15036 *Polygala glochidiata* H. B. K.
 - ✓15064 *Psidium araca* Raddi
 - 15104 *Hypericum uliginosum* H. B. K.
 - ✓15302 *Sauvagesia erecta* L.
 - 15440 *Ipomoea batatas* (L.) Lam.
 - ✓15522 *Daucus montana* H. & B.
 - ✓15824 *Hypericum carinosum* Keller
 - ✓15896 *Miconia alberta* Gleason Type
 - ✓16074 *Gunnera pilosa* H. B. K.
 - ✓16102 *Jussiaea peruviana* L.
 - ✓16355 *Barlieria micrantha* Nees
 - ✓16370 *Wiegandia caracasana* H. B. K.
 - ✓17041 *Campelia zanonia* (L.) H. B. K.
" " " "
 - ✓17066
 - 17138 *Hypericum lancifolium* Gleason (type)
 - ✓17255 " *stenopetalum* Trucz.
 - ✓17272 *Miconia pallida* Gleason
 - ✓17320 " " "
 - ✓17496 *Hypericum platyphyllum* Gleason
 - ✓17710 *Miconia pallida* Gleason
 - ✓18059 *Phytolacca rugosa* A. Br. & Bouché
 - ✓18115 *Gunnera pilosa* H. B. K.
 - ✓18180 *Miconia pallida* Gleason

-2-

- ✓18212 *Bidens triplinervia macrantha* (Wedd.) Sherff (det. Sherff)
✓18389 *Miconia pallida* Gleason (type)
~18521 *Sphacele hirsuta* Epl.
✓18692 *Ribes columbiana* Berger?
✓19052 *Casearia praecox* Griseb.
~✓19055 *Morisonia americana* L.
~✓19145 *Marattia kaulfussii* J. Sm.
.✓19196 *Campelia zanonia* (L.) H. B. K.
.✓19225 *Miconia prasina* (Sw.) DC.
✓19227 *Coriaria thymifolia* H. & B.
✓19235 *Miconia prasina* (Sw.) DC.
✓o 20028 " *alberti* Gleason
✓20566 " " "
~✓20766 *Talinum paniculatum* (Jacq.) Gaertn.
✓v 20916 *Ipomoea quinquefolia* L.
✓v 21046 *Boutia daphnoides* L.
✓v 15512 *Ipomoea batatas* (L.) Lam.

January 20, 1930.

5 6

COLOMBIAN RUBIACEAE COLLECTED BY KILLIP & SMITH, 1926-27.

Identified by Paul C. Standley, Field Museum of Natural History.

- ✓ 14167 *Hamelia pedicellata* Wernh.
- ✓ 14263 *Rondeletia Purdiei* Hook. f.
- ✓ 14394 *Chomelia spinosa* Jacq.
- ✓ 14397 *Rondeletia Purdiei* Hook. f.
" " " "
- ✓ 14628
- ✓ 14673 *Psychotria pimularis* Sessé & Moç.
- ✓ 14853 *Sabicea colombiana* Wernh.
- ✓ 14908 *Manettia coccinea* (Aubl.) Willd.
- ✓ 14912 *Psychotria lupulina* Benth.
- ✓ 14917 *Palicourea triphylla* DC.
- ✓ 14929 *Sabicea villosa* R. & S. var. *adpressa* (Wernh.) Standl.
- ✓ 14968 *Warscewiczia coccinea* (Vahl) Kl.
- ✓ 14985 *Chiococca alba* (L.) Hitchc.
- ✓ 14989 *Psychotria alba* R. & P.
- ✓ 15069 *Palicourea semirasa* Standl.
- ✓ 15070 *Psychotria erythrocephala* (Schum. & Kr.) Standl.
" "
- ✓ 15132
- ✓ 15151. " *cuspidata* Bredem.
- ✓ 15155 *Cephaelis tomentosa* (Aubl.) Vahl.
- ✓ 15165 *Borreria verticillata* (L.) Mey
- ✓ 15231 *Diodia rigida* (Willd.) C. & S.
- ✓ 15243 *Borreria capitata* (R. & P.) DC.
" *latifolia* (Aubl.) Schum.
- ✓ 15258 *Cephaelis tomentosa* (Aubl.) Vahl.
Palicourea semirasa Standl.
- ✓ 15275 " *perquadrangularis* Wernh.
- ✓ 15286 *Psychotria Bolivariana* Standl.
- ✓ 15395 *Manettia coccocypseloides* Wernh.
- ✓ 15396 *Relbunium hypocarpium* (L.) Hemsl.
Chiococca alba (L.) Hitchc.
- ✓ 15432 " *Gonzalagunia cornifolia* (H. B. K.) Standl.
- ✓ 15482 *Rondeletia glabrata* Standl.
- ✓ 15495 *Relbunium hypocarpium* (L.) Hemsl.
- ✓ 15627 *Acytaphyllum nitidum* (H. B. K.) Schl.
- ✓ 15890 *Psychotria Aschersonianoides* Wernh.
" *samaritensis* Rusby
- ✓ 15967 " "
- ✓ 15990 *Ladenbergia undata* Kl.
- ✓ 16003 *Borreria bogotensis* (H. B. K.) Standl.
- ✓ 16045 *Palicourea* sp.
- ✓ 16056 *Psychotria rufiramea* Standl.
- ✓ 16078 *Manettia meridensis* Schum.
- ✓ 16094 *Galium obovatum* H. B. K.
- ✓ 16114 *Relbunium hirsutum* (R. & P.) Schum.
- ✓ 16119 " *Palicourea lutulenta* Standl.
- ✓ 16139 " "
- ✓ 16191 *Hamelia patens* Jacq.

-3-

- ✓ 16272 *Tarosiewiczia coccinea* (Vahl) Kl.
 ✓ 16280 *Psychotria alba* R. & P.
 ✓ 16299 *Randia spinosa* (Jacq.) Karst.
 ○ 16344 *Mamelia patens* Jacq.
 ✓ 16424 *Cogniauxia grandiflora* (R. & P.) Rusby
 ✓ 16434 *Chiococca alba* (L.) Hitchc.
 ✓ 16535 *Manettia coccocypseloides* Vernh.
 ✓ 16583 *Palicourea leuconeura* Standl.
 ✓ 16599 *Psychotria longirostris* (Rusby) Standl.
 ✓ 16597 *Hoffmannia triosteoides* Standl.
 ○ 16617 *Psychotria fortuita* Standl.
 ✓ 16679 " " "
 ✓ 16739 " " "
 ✓ 16856 *Borreria capitata* (R. & P.) BC.
 ○ ✓ 16892 *Psychotria amita* Standl.
 ✓ 16909 *Palicourea leuconeura* Standl.
 ✓ 16910 *Arcytophyllum nitidum* (H. B. K.) Schi.
 ✓ 16920 *Palicourea luteola* Standl.
 ✓ 16956 *Relbunium ciliatum* (R. & P.) Hemsl.
 ✓ 17004 *Manettia coccocypseloides* Vernh.
 ✓ 17074 *Rondeletia inconstans* Standl.
 ✓ 17092 *Hoffmannia triosteoides* Standl.
 ✓ 17135 *Cinchona pubescens* Vahl
 ○ ✓ 17381 *Galium piliferum* H. B. K.
 ✓ 17414 *Relbunium ciliatum* (R. & P.) Hemsl.
 ✓ 17449 *Hoffmannia triosteoides* Standl.
 ✓ 17508 *Arcytophyllum carnaeum* (H. B. K.) Standl.
 ✓ 17513 " " "
 ○ ✓ 17599 " nitidum (H. B. K.) Schi.
 ○ ✓ 17614 *Relbunium hypocrateum* (L.) Hemsl.
 ✓ 17664 " " "
 ✓ 17855 *Psychotria Aschersonianoides* Vernh.
 ✓ 19033 *Relbunium hirsutum* (R. & P.) Schum.
 ✓ 19051 " nitidum (H. B. K.) Schum.
 ✓ 18079 *Palicourea luteola* Standl.
 ✓ 18088 " vagans Vernh.
 ✓ 18124 *Psychotria amita* Standl.
 ✓ 18148 *Galium canescens* H. B. K.
 ✓ 18155 *Palicourea vagans* Vernh.
 ✓ 18157 " luteola Standl.
 ✓ 18224 *Arcytophyllum muticum* (Wedd.) Standl.
 ○ ✓ 18237 *Relbunium hypocrateum* (H. B. K.) Schi.
 ✓ 18291 *Psychotria amita* Standl.
 ✓ 18327 *Palicourea leuconeura* Standl.
 ✓ 18330 *Cinchona pubescens* Vahl
 ✓ 18337 *Palicourea leuconeura* Standl.
 ○ ✓ 18342 *Psychotria amita* Standl.
 ✓ 18399 *Relbunium hirsutum* (R. & P.) Schum.
 ✓ 18413 *Arcytophyllum nitidum* (H. B. K.) Schi.
 ✓ ○ 18447 *Relbunium hirsutum* (R. & P.) Schum.
- ✓ 18281 *Palicourea leuconeura* Standl.

G 4 - G

-3-

- ✓ 18449 *Areytophyllum muticum* (Wedd.) Standl.
 ✓ 18549 *Galium obovatum* H. B. K.
 ✓ 18556 " "
 ✓ 18574 *Areytophyllum nitidum* (H. B. K.) Schle.
 ✓ 18774 *Palicourea lutulenta* Standl.
 ✓ 18869 " *vaginata* Benth.
 ✓ 18863 *Borreria chartensis* Standl.
 ✓ 18889 *Areytophyllum nitidum* (H. B. K.) Schle.
 ✓ 18921 *Manettia coccocypseloides* Verah.
 ✓ 19004 *Palicourea vaginalis* Benth.
 ✓ 19005 *Hoffmannia glabra* Standl.
 ✓ 19007 *Palicourea vaginalis* Benth.
 ✓ 19015 *Hoffmannia triostecoides* Standl.
 ✓ 19020 *Psychotria longirostris* (Rusby) Standl.
 ✓ 19070 *Palicourea denissa* Standl.
 ✓ 19100 *Rondeletia inconstans* Standl.
 ✓ 19126 *Belbium nitidum* (H. B. K.) Schle.
 ✓ 19139 *Hoffmannia glabra* Standl.
 ✓ 19141 " *triostecoides* Standl.
 ✓ 19143 *Palicourea ovalis* Standl.
 ✓ 19147 *Hoffmannia triostecoides* Standl.
 ✓ 19154 *Psychotria longirostris* (Rusby) Standl.
 ✓ 19156 *Elaeagnia utilis* (Condit) Wedd.
 ✓ 19187 *Psychotria longirostris* (Rusby) Standl.
 ✓ 19209 " *lateriflora* Standl.
 ✓ 19232 " *amita* Standl.
 ✓ 19236 " *rufiramea* Standl.?
 ✓ 19314 *Hoffmannia triostecoides* Standl.
 ? ✓ 19454 *Psychotria fortuita* Standl.
 ✓ 19490 *Gonzalagunia dependens* R. & P.
 ✓ 19509 *Galium piliferum* H. B. K.
 ✓ 19563 *Belbium ciliatum* (R. & P.) Hemsl.
 ✓ 19583 *Areytophyllum muticum* (Wedd.) Standl.
 ✓ 19764 *Galium canescens* H. B. K.
 ✓ 19841 *Palicourea vaginalis* Benth.
 ✓ 19846 *Psychotria Achersonianoides* Wernh.
 ✓ 19848 *Palicourea vaginalis* Benth.
 ✓ 19902 " *denissa* Standl.
 ✓ 19958 " "
 ✓ 20007 " "
 ✓ 20008 " *Albert-Smithii* Standl.
 ✓ 20047 " *leuconeura* Standl.
 ✓ 20084 *Rondeletia inconstans* Standl.
 ✓ 20087 *Palicourea leuconeura* Standl.
 ✓ 20096 " *Albert-Smithii* Standl.
 ✓ 20201 *Galium obovatum* H. B. K.
 ✓ 20228 *Psychotria amita* Standl.
 ✓ 20231 *Palicourea vaginalis* Benth.
 ✓ 20238 " "
 ✓ 20240 *Psychotria amita* Standl.
- where is
Label not
written.

-4-

- ✓ 20273 *Psychotria longirostris* (Rusby) Standl.
✓ 20322 *Palicourea vaginata* Benth.
✓ 20388 " *demissa* Standl.
✓ 20400 " *vaginata* Benth.
✓ 20405 *Hoffmannia glabra* Standl.
✓ 20409 *Palicourea vaginata* Benth.
✓ 20425 *Psychotria fortuita* Standl.
✓ 20427 *Psychotria longirostris* (Rusby) Standl.
✓ 20434 *Hoffmannia triestecoides* Standl.
○ 20455 *Paramoena*? Material incomplete.
○ 20472 *Palicourea demissa* Standl.
✓ 20563 " *vaginata* Benth.
✓ 20592 " " "
✓ 20598 " *demissa* Standl.
✓ 20609 " *vaginata* Benth.
✓ 20647 *Psychotria Aschersonianoides* Vernh.
✓ 20664 *Arcytophyllum nitidum* (R. B. K.) Schl.
✓ 20696 *Psychotria Aschersonianoides* Vernh.
✓ 20728 *Palicourea demissa* Standl.
✓ 20762 *Emmeorrhiza umbellata* (Sprang.) Schum.
○ 20784 *Hamelia patens* Jacq.
○ 20828 *Emmeorrhiza umbellata* (Sprang.) Schum.
✓ 20900 *Warscewiczia coccinea* (Vahl) Kl.
○ 20915 *Hamelia patens* Jacq.
○ 21141 *Hoffmannia triestecoides* Standl.

January 17, 1930

KILLIP & SMITH COLOMBIAN COLLECTION, 1926-27

Rubiaceae named by P. C. Standley; Epilobium by Prof. G. Samuelsson;
Phoradendron by Dr. William Trelease

- ✓14013 *Morinda roioc L.*
- ✓14056 *Borreria spinosa C. & S.*
- ✓14198 *Coutarea hexandra (Jacq.) Schum.*
- ✓14245 *Psychotria pinularis S. & M.*
- ✓14251 *Chiococca alba (L.) Hitchc.*
- ✓14262 *Psychotria pinularis S. & M.*
- ✓14315 *Evolvulus latifolius Ker*
- ✓14350 *Phoradendron Degenianum*
- ✓14390 *Spermacoce tenuior L.*
- ✓14522 *Evolvulus latifolius Ker*
- ✓14542 *Phoradendron arjonanum, n. sp.*
- ✓14697 *Randia spinosa (Jacq.) Karst.*
- ✓14764 *Geophila herbacea (L.) Schum.*
- ✓14805 *Oldenlandia herbacea (L.) DC.*
- ✓14857 *Sabicea colombiana Wernh.*
- ✓14887 *Isertia haenkeana DC.*
- ✓14950 " " "
- ✓14961 *Psychotria micrantha H. B. K.*
- ✓15054 *Coccocypselum canescens Willd.*
- ✓15072 *Phoradendron averrucosum, n. sp.*
- ✓15312 " Killipi, n. sp.
- ✓15433 *Sageretia elegans (H. B. K.) Brongn.*
- ✓15452 *Trichanthera gigantea H. B. K.*
- ✓15782 *Sphacelae salviaefolia Benth.*
- ✓16040 *Cephaelis axillaris Swartz*
- ✓16254 *Phoradendron venezuelense*
- ✓16426 *Trichanthera gigantea H. B. K.*
- ✓16516 *Dendrophthora sp.*
- ✓16570 *Coccocypselum canescens Willd.*
- ✓16590 *Cephaelis axillaris Swartz*
- ✓16642 *Peperomia pendentibacca Trel.*
- ✓17006 *Borreria laevis (Lam.) Griseb.*
- ✓17444 *Coccocypselum canescens Willd.*
- ✓17646 *Epilobium meridense halodes (Lévb.) Sam.*
- ✓18009 *Hyptis polystachya H. B. K.*
- ✓18030 *Nertera depressa Banks & Sol.*
- ✓18850 *Cephaelis axillaris Swartz*
- ✓18990 *Nertera depressa Banks & Sol.*
- ✓19167 *Faramea killipii Standl.*
- ✓19288 *Cephaelis axillaris Swartz*
- ✓19318 " " "
- ✓19686 *Dendrophthora sp.*
- ✓19741 " "
- ✓19790 ?
- ✓19802 *Phoradendron pamplonanum n. sp.*

- ✓20061 *Coccocypselum canescens* Willd.
- ✓20214 *Cephaelis axillaris* Swartz
- ✓20128 *Phoradendron toledoanum* n. sp.
- ✓20236 *Nertera depressa* Banks & Sol.
- ✓20391 *Epilobium assurgens* Sam.
- ✓20410 *Cephaelis axillaris* Swartz
- 20580 ?
- ✓20651 *Nertera depressa* Banks & Sol.
- ✓20891 *Trichanthera gigantea* H. B. K.
- ✓20994 *Evolvulus latifolius* Ker
- ✓21034 *Phoradendron exignum*

January 20, 1930.

Material of Palea was nearly
all retained at U.S.N.M., and
will be distributed later.

E.P.C.

SMITHSONIAN INSTITUTION
UNITED STATES NATIONAL MUSEUM
WASHINGTON, D. C.

October 16, 1928.

Dr. B. L. Robinson,
Gray Herbarium of Harvard University,
Cambridge, Massachusetts.

Dear Doctor Robinson:

Inclosed are lists of additional determinations of several
current South American collections.

Sincerely yours,

Ellsworth P. Killip

Ellsworth P. Killip
Associate Curator,
Division of Plants.

Enclosures.

PARTIAL LIST OF DETERMINATIONS OF KILLIP-SMITH COLOMBIAN PLANTS.

- ✓ 14006. *Amphilophium paniculatum* (L.) H. B. K.
 ✓ 14007. *Stachytarpheta erubica* (L.) Vahl.
 ✓ 14008. *Lonchocarpus punctatus* H. B. K.
 ✓ 14015. " " "
 ✓ 14018. *Diphysa carthagenensis* Jacq.
 ✓ 14022. *Machaerium arboreum* (Jacq.)
 ✓ 14030. *Diphysa carthagenensis* Jacq.
 ✓ 14043. *Priva lappulacea* (L.) Pers.
 ✓ 14059. *Indigofera suffruticosa* Mill.
 ✓ 14100. *Cracca cathartica* (Sessé & Moç.) Britton & Millsp.
 ✓ 14108. *Celotropis procera* Dry.
 ✓ 14109. *Sophora tomentosa* L.
 ✓ 14143. *Bradburya plumieri* (Turp.) Kuntze
 ✓ 14146. *Spigelia anthelmia* L.
 ✓ 14152. *Lonchocarpus punctatus* H. B. K.
 ✓ 14160. *Crotalaria incana* L.
 ✓ 14196. *Stachytarpheta erubica* (L.) Vahl.
 ✓ 14199. *Amphilophium paniculatum* (L.) H. B. K.
 ✓ 14200. *Lonchocarpus punctatus* H. B. K.
 ✓ 14220. *Diphysa carthagenensis* Jacq.
 ✓ 14233. *Indigofera subulata* Vahl.
 ✓ 14321. *Bradburya plumieri* (Turp.) Kuntze
 ✓ 14353. *Pilea microphylla* (L.) Liebm.
 ✓ 14379. *Indigofera suffruticosa* Mill.
 ✓ 14422. *Nissolia fruticosa* Jacq.
 ✓ 14469. *Hibiscus abelmoschus* L.
 ✓ 14470. *Pilea microphylla* (L.) Liebm.
 ✓ 14488. *Tecoma stans* (L.) H. B. K.
 ✓ 14494. *Mimosa mangensis* Jacq.
 ✓ 14509. *Nissolia fruticosa* Jacq.
 ✓ 14518. *Lippia hemispherica* Cham.
 ✓ 14533. *Lantana camara* L.
 ✓ 14536. *Amphilophium paniculatum* (L.) H. B. K.
 ✓ 14554. *Pleonostoma diversifolium* Bur. & Schum.
 ✓ 14564. *Crotalaria retusa* L.
 ✓ 14584. " *incana* L.
 ✓ 14623. *Nissolia fruticosa* Jacq.
 ✓ 14634. *Amphilophium paniculatum* (L.) H. B. K.
 ✓ 14690. *Pilea herniarioides* (Sw.) Lindl.
 ✓ 14702. *Hyptis mutabilis* (Rich.) Briq.
 ✓ 14793. *Stachytarpheta jamaicensis* (L.) Vahl.
 ✓ 14815. *Lantana camara* L.
 ✓ 14990. *Duranta repens* L.
 ✓ 15033. *Anagallis pumila* Sw.
 ✓ 15044. *Crotalaria nitens* H. B. K.
 ✓ 15087. *Massyrianthes amaedrys arenosa* (Benth.) Epl.
 ✓ 15134. *Leiphamos aphylla* (Jacq.) Gilg
 ✓ 15240. *Schwenckia americana* L.
 ✓ 15301. *Hyptis conferta excelsa* (M. & G.) Epl.

- ✓15426. *Indigofera suffruticosa* Mill.
✓15483. *Viola stipularis* Sw.
✓15574. *Valeriana gracilis* Benth.
✓15665. " *vetasana* Killip
✓15675. " *stenophylla* Killip. Type
✓15779. *Viola colombiana* Becker
✓15907. " *stipularis* Sw.
✓16072. " *scandens* Willd.
✓16088. " "
✓16107. *Phenax rugosus* (Poir.) Wedd.
✓16200. *Pilea microphylla* (L.) Liebm.
✓16210. *Myriocarpa stipitata* Benth.
✓16214. *Hyptis mutabilis* (Rich.) Briq.
✓16229. *Plumbago scandens* L.
✓16258. *Pilea microphylla* (L.) Liebm.
✓16278. *Aeschynomene scoparia* H. B. K.
✓16286. *Machaerium glabratum* Pittier
16305. *Crotalaria nitens* H. B. K.
✓16345. *Aeschynomene portoricensis* Urban
✓16399. *Lantana alba* Mill.
✓16416. *Jasimum grandiflorum* L.
✓16442. *Hemistylis Boehmerioides* Benth.
✓16455. *Aeschynomene scoparia* H. B. K.
✓16490. *Asclepias curassavica* L.
✓16564. *Lantana trifolia* L. = *Rapanea* V.H.; Can thus be 16574
✓16605. *Crotalaria anagyroides* H. B. K.
✓16627. *Escallonia floribunda* H. B. K.
✓16687. *Phenax rugosus* (Poir.) Wedd.
✓16718. *Viola odorata* L.
✓16756. *Verbena littoralis* H. B. K.
✓16759. *Duranta mutisii* L. f.
✓16771. *Escallonia floribunda* H. B. K.
✓16820. *Sambucus nigra* L.
✓16867. *Anagallis coerulea* Schreb.
✓16885. *Lippia hirsuta* L. f.
✓16951. *Parietaria debilis* Forst.
✓16982. *Lippia hirsuta* L. f.
✓16989. *Pilea parietaria* (L.) Bl.
✓17017. *Phenax hirtus* (Sw.) Wedd.
✓17053. *Lippia hirsuta* L. f.
✓17099. *Spigelia humboldtiana* C. & S.
✓17117. *Vicia faba* L.
✓17141. *Escallonia floribunda* H. B. K.
✓17149. *Parietaria debilis* Forst.
✓17161. *Vicia faba* L.
✓17252. *Vicia andicola* H. B. K.
✓17340. *Verbena littoralis* H. B. K.

- 17363. *Medicago hispida* Gaertn.
- 17400. *Vicia andicola* H. B. K.
- ✓ 17401. " " "
- ✓ 17542. *Gentiana sedifolia* H. B. K.
- ✓ 17601. *Valeriana vetasana* Killip, sp. nov.
- ✓ 17615. *Vicia andicola* H. B. K.
- ✓ 17702. *Salvia amethystina* J. Sm.
- ✓ 17709. *Juncus bogotensis* H. B. K.
- ✓ 17778. *Gardoquia discolor* H. B. K.
- ✓ 17872. *Oenothera tetraptera* Cav.
- ✓ 17899. *Lathyrus magellanicus* Lam.
- 17964. *Isoetes lechleri columbiana* Palmer. Type
- ✓ 17984. *Valeriana smithii* Killip, sp. nov.
- 17990. *Escallonia discolor* Vent.
- ✓ 18025. *Anagallis coerulea* Schreb.
- ✓ 18138. *Viola scandens* Willd.
- ✓ 18192. *Sphacelae hirsuta* Epl.
- ✓ 18255. *Viola veronicaefolia* Tr. & Pl.
- ✓ 18266. *Valeriana pavonii* Poepp.
- ✓ 18292. *Klaprothia mentzeloides* H. B. K.
- ✓ 18316. *Phenax rugosus* (Poir.) Wedd.
- ✓ 18324. *Valeriana pavonii* Poepp.
- 18344. *Duranta repens* L.
- ✓ 18471. *Valeriana rigida* (Pers.) R. & P.
- ✓ 18485. *Viola scandens* Willd.
- ✓ 18486. " *humilis* H. B. K.
- ✓ 18502. *Vicia andicola* H. B. K.
- ✓ 18544. " " "
- ✓ 18584. *Gentiana sedifolia* H. B. K.
- ✓ 18661. *Valeriana rigida* (Pers.) R. & P.
- ✓ 18681. *Sphacelae salviaeefolia* Benth.
- ✓ 18727. *Escallonia discolor* Vent.
- ✓ 18734. *Medicago hispida* Gaertn.
- ✓ 18757. *Lippia hirsuta* L. f.
- ✓ 18760. *Valeriana pavonii* Poepp.
- ✓ 18786. *Valeriana pavonii* Poepp.
- ✓ 18803. *Viola scandens* Willd.
- ✓ 18961. *Pisum sativum* L.
- ✓ 19032. *Pilea latifolia* Wedd.
- ✓ 19067. *Petraea arborea* K. B. K.
- ✓ 19068. *Jasimum pubescens* Willd.
- ✓ 19069. " *grandiflorum* L.
- ✓ 19228. *Lippia hirsuta* L. f.
- ✓ 19311. *Escallonia floribunda* H. B. K.
- ✓ 19357. *Indigofera suffruticosa* Mill.
- ✓ 19370. *Pilea acuminata* Liebm.
- ✓ 19401. *Phenax petiolaris* Wedd.
- ✓ 19407. *Myriocarpa stipitata* Benth.
- ✓ 19426. *Boehmeria caudata* Sw.

- ✓19482. *Phenax rugosus* (Poir.) Wedd.
✓19514. *Trifolium amabile* H. B. K.
✓19569. *Valeriana rigida* (Pers.) R. & P.
✓19573. *Vicia andicola* H. B. K.
✓19614. *Sphaecle conferta* Benth.
✓19650. *Vicia andicola* H. B. K.
✓19666. *Parietaria debilis* Forst.
✓19756. *Valeriana pavonii* Poepp.
✓19793. *Boehmeria caudata* Sw.
✓19837. *Valeriana clematidis* Poepp.
✓19855. " *pavonii* Poepp.
✓19891. *Viola veronicaefolia* Tr. & Pl.
✓19919. " *nelsonii* Rose
✓19985. *Gardonia discolor* H. B. K.
✓20150. *Valeriana pavonii* Poepp.
✓20183. *Phenax rugosus* (Poir.) Wedd.
✓20229. *Valeriana pavonii* Poepp.
✓20285. *Lippia hirsuta* L. f.
✓20370. *Pilea multiflora* (Poir.) Wedd.
✓20395. *Ulex europeus* L.
✓20528. *Asclepias curassavica* L.
✓20532. *Plumbago coerulea* H. B. K.
✓20541. *Boehmeria caudata* Sw.
✓20578. *Escallonia floribunda* H. B. K.
✓20724. *Viola nelsonii* Rose
✓20767. *Schistocarpha oppositifolia* (Ktze.) Rydb.
✓20771. *Crotalaria nitens* H. B. K.
✓20773. *Myriocarpa stipitata* Benth.
✓20794. *Urera baccifera* (L.) Gaud.
✓20800. *Pilea involucrata* (Sims) Urban
✓20804. *Pilea hyalina* Fenzl
✓20817. *Crotalaria nitens* H. B. K.
✓20835. " *sagittalis* L. (form)
✓20843. *Stachytarpheta mutabilis* Vahl.
✓20847. *Crotalaria sagittalis* L. (form)
✓20854. *Myriocarpa stipitata* Benth.
✓20859. *Boehmeria ramiflora* Jacq.
✓20866. *Crotalaria anagyroides* H. B. K.
✓20912. *Aeschynomene falcata* (Poir.) DC.
✓20921. " *scoparia* H. B. K.
✓20940. *Gracca cinerea* (L.) Morong
✓20941. *Crotalaria incana* L.
✓21055. " *retusa* L.
○✓21051. *Spigelia anthelmia* L.
✓21076. *Avicennia nitida* Jacq.
✓21086. *Platymiscium polystachyum* Benth.
✓21197. *Verbena littoralis* H. B. K.
○ 21230. *Lantana camara* L.

✓19985 *Polyphodium* at G.H.
(as in list from Dr. Mayr)

S. 7

ARACEAE
(Det. K. Krause, Berlin)

Killip-Smith, Colombia.

- ✓15050. *Anthurium buganum* Engl.
✓15965. " *cabrerense* Engl.
✓17067. " *cupreo-intens* Engl.
✓20237. " *deflexum* Engl.
✓19939. " " "
✓18301. " " "
✓20325. " " "
✓19325. " *denudatum* Engl.
✓20269. " *funiferum* Kl. & Karst.
✓21175. " *hygraphilum* Engl.
✓20567. " (*cf. A. incurvum* Engl.)
✓18759. " *lehmanni* Engl.
✓15267. " *lindenianum* Kth. & Bouché
✓16402. " " "
✓16036. " *longegeniculatum* Engl.
✓20219. " *magnificum* Linden
✓18969. " *multinervium* Engl.
✓17114. " *nitidum* Benth.
✓16984. " " "
✓18845. " " "
✓19180. " " "
✓19268. " " " z. sch.
✓17114. " " "
✓16573. " " "
✓17842. " *oxybelium* Schott
✓15863. " *rotundilobum* Engl.
✓19112. *Xanthosoma jacquinii* Schott
✓14660. *Syngonium vellozianum latilobum* Engl.
✓14661. " " " " "
✓20322. *Philodendron montanum* Engl.
✓15288. " " "
✓20199. " " "
✓18966. " (*cf. P. multispaticum* Engl.)
✓16393. " *tripartitum* (Jacq.) Schott
✓20222. " *wallisii* Regel
✓14356. *Monstera acuminata* C. Koch
✓14832. " *gracilis* Engl.
✓14417. " " "

4

Killip-Smith, Colombia

Baccharis (Determined, S. F. Blake)

U. S. National Museum, July 1933.

✓15120. *Baccharis cassinaefolia* DC.

✓19084. " "

✓15461. " *cinnamomifolia* H.B.K.

✓15524. " *floribunda* H.B.K.

✓16599. " "

✓16696. " "

✓18002. " "

✓18062. " "

✓20494. " "

✓14436. " *trinervis* (Lam.) Pers.

✓15423. " "

✓20131. " " *rhexicoides* (H.B.K.) Baker

✓20509. " " "

✓17411. " *microphylla* H.B.K.

✓17660. " "

✓18208. " "

✓18713. " "

Killip-Smith, Colombia-2

Bomarea (det. E. P. Killip)

✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
16925, 17374, 17701, 17887, 18492, 18603, 19733. *B. frondosa* Mast.

✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
15612, 17810, 17858, 18058, 18177, 18669, 18932. *B. crassifolia* Baker

✓ ✓
21178. *B. hispida* Baker

✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
15793, 17819, 17850, 19843, 19870, 19928, 20025, 20606. *B. purpurea*
(R. & P.) Herb.

✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
18130, 18029, 17187, 15578, 17720, 18778, 18828, 18377, 18793, 17279,
19603, 20470, 19992, 17881 (type). *B. trichophylla* Killip

✓
18151. *B. multiflora* (L. f.) Mirb.

✓ ✓
20340, 20716. *B. moritziana* Klotzsch

✓ ✓
15587, 15784 (type). *B. vegasana* Killip

✓
✓ 20738. *B. hispida* Baker

5

COMPOSITAE
(Det. S. F. Blake)

U. S. National Museum, August 1932.

Killip-Smith, Colombia.

✓17661. *Calea longipes* Blake

18439? - 18489. " " "

✓16626. " *septuplinervia* Hieron.

✓18304. " " "

✓15416. " *prunifolia* H. B. K.

✓16189. " " "

✓14987. " *solidaginea* H. B. K.

✓16233. " " "

✓20830. " " "

✓18443. *Diplostephium baccharideum* Blake

✓15834. " *rosmarinifolium* (Benth.) Wedd.

✓17746. " " " "

✓18080. " " " "

✓19352. *Heliopsis buphtalmoides* (Jacq.) Dunal

✓19636. " " " " "

✓17885. *Montanea ovalifolia* (DC.) Sch. Bip.

✓18001. " " " " "

✓19446. " *quadrangularis* Blake

✓17016 18826. " *quadrangularis* Sch. Bip.

✓18954. " " " " "

✓19253. " " " " "

KILLIP-SMITH COLOMBIA 1926-27

Geraniaceae and Oxalidaceae, determined by
R. Knuth.

- ✓15592. *Geranium piurense* R. Knuth
✓15630. " *cucullatum elongatum* Wedd.
✓15736, 15791, 17675, ✓
• 18225, 18407, ✓ 18733, ✓ 19585) ditto
✓15661, 17406, 17421, 17597, 17946. *G. santanderiense* R. Knuth
✓17484. *G. cucullatum* H.B.K.
✓17975. " "
17626. " *mogotorerense* R. Knuth (Type)
✓17154, 18388, 19672. *Erodium moschatum praecox* Lge.
✓15520, 16075, 16540. *Oxalis medicaginea* H.B.K.
✓15598, 17764, 17814, 17837. *Oxalis pubescens* H.B.K.
✓16853. *Oxalis corniculata* L.
(For other specimens of *Oxalis* see Pflanzenreich).

Labiatae, Determined by Dr. C. Epling (All Salvia)

July 26, 1930

Killip & Smith Colombia

- ✓ 19416. *S. riparia* Kunth
- ✓ 19792. *S. obvallata* Epl.
- ✓ 19389. " Type
- ✓ 16874. " "
- ✓ 17695. *S. killipiana* Epl.
- * 16032. " "
- ✓ 15604. " Type
- ✓ 17381. *S. carnea* Kunth
- ✓ 17378. "
- ✓ 17702. *S. amethystina* J. E. Sm.
- ✓ 19390. *S. caleocalyxina* Briq. ?
- ✓ 20540. " "
- ✓ 16092. *S. debilis* Epl. Type
- * 16032. " "
- ✓ 18965. " "
- ✓ 16441. *S. bogotensis* Benth.
- ✓ 16772. *S. erythrostoma* Epl. Type
- ✓ 19692. *S. palaefolia* Kunth
- ✓ 16619. " "
- ✓ 18014. " "
- ✓ 16971. *S. intonsa* Epl. Type
- ✓ 18144. *S. colombiana* Epl. Type
- ✓ 17898. " "
- ✓ 17318. " "
- ✓ 17319. " "
- ✓ 19519. *S. orthostachys* Epl.
- ✓ 19683. " "
- ✓ 20746. " Type
- ✓ 19735. *S. melaleuca* Epl. Type
- ✓ 16973. *S. funckii* Briq.

* I am asking Epling about this confusion

Killip-Smith, Colombia.

Mimosaceae & Caesalpiniaceae
(N. L. Britton)

- ✓14001. *Acuan virgatum* (L.) Medic? (sterile)
- ✓14002. *Neltuma juliflora* (Sw.) Raf.
- ✓14027. *Isandrina emarginata* (L.) B. & R.
- ✓14028. *Adipera bicapsularis* (L.) B. & R.
- ✓14031. *Libidibia coriaria* (Jacq.) Schl.
- ✓14038. *Emelista tora* (L.) B. & R.
- ✓14040. *Peyrianisia biflora* (L.) Pittier
- ✓14068. *Anneslia marginata* (Griseb.) B. & R.
- ✓14069. *Acuan virgatum* (L.) Medic
- ✓14071. *Isandrina emarginata* (L.) B. & R.
- ✓14078. *Acuan virgatum* (L.) Medic
- ✓14084. " " " "
- ✓14085. *Schnella columbiensis* (Vog.) Benth.
- ✓14089. *Emelista tora* (L.) B. & R.
- ✓14090. *Popanax flexuosa* (H. & B.) B. & R.
- ✓14112. *Guilandina crista* (L.) Small
- ✓14125. *Acuan virgatum* (L.) Medic
- ✓14131. *Albizia columbiana* Britton
- ✓14135. *Libidibia coriaria* (Jacq.) Schl.
- ✓14140. *Piptadenia flava* (Spreng.) Bth.
- ✓14141. *Mimosa flavescens* Splitz.
- ✓14195. *Emelista tora* (L.) B. & R.
- ✓14202. *Acuan depressum* (H. & B.) Ktze.
- ✓14206. *Pithecolobium forfex* (Kunth) Benth.
- ✓14211. *Piptadenia flava* (Spreng.) Bth.
- ✓14218. *Schnella columbiensis* (Vog.) Benth.
- ✓14227. *Anneslia marginata* (Griseb.) B. & R.
- ✓14229. *Ditremexa occidentalis* (L.) B. & R.
- ✓14231. *Anneslia marginata* (Griseb.) B. & R.
- ✓14235. *Schnella columbiensis* (Vog.) Benth.
- ✓14237. *Mimosa pudica* L.
- ✓14239. *Leucaena bolivarensis* Britton (type)
- ✓14267. *Anneslia marginata* (Griseb.) B. & R.
- ✓14293. *Inga smithii* Britton (type)
- ✓14300. *Bauhinia pauletia* Pers.
- ✓14312. *Pithecolobium pittieri* Britton & Killip
- ✓14319. *Chamaefistula bacillaris* (L. f.) G. Don
- ✓14334. *Acuan virgatum* (L.) Medic
- ✓14338. *Pithecolobium forfex* (Kunth) Benth.
- ✓14343. *Anneslia marginata* (Griseb.) B. & R.
- ✓14345. *Samanea saman* (Jacq.) Merrill
- ✓14368. *Anneslia marginata* (Griseb.) B. & R.
- ✓14372. *Acuan virgatum* (L.) Medic
- ✓14381. *Piptadenia flava* (Spreng.) Bth.
- ✓14388. *Anneslia marginata* (Griseb.) B. & R.
- ✓14419. *Delonix regia* (Bojer) Raf.

- ✓14427. *Mimosa flavescentia* Splitz
- ✓14428. *Bauhinia unguiculata* L.
- ✓14431. *Piptadenia gracilipes* Britton
- ✓14438. *Libidibia coriaria* (Jacq.) Schl.
- ✓14441. *Schnella columbiensis* (Vog.) Benth.
- ✓14442. *Piptadenia flava* (Spreng) Benth.
- ✓14453. " (?) *uliginosa* Britton (type)
- ✓14456. *Libidibia coriaria* (Jacq.) Schl.
- ✓14462. *Chamaecrista stenocarpa* (Vogel) Standl.
- ✓14481. *Isandrina emarginata* (L.) B. & R.
- ✓14482. *Senegalalia* (aff. *S. affinis*) Britton
- ✓14489. *Poinciana pulcherrima* L.
- ✓14494. *Chloroleucon mangense* (Jacq.) B. & R.
- ✓14500. *Neptunia prostrata* (Lam.) Baill.
- ✓14501. *Piptadenia gracilipes* Britton (type)
- ✓14510. *Leptoglottis hamata* (H. & B.) Standl.
- ✓14517. *Chamaefistula bacillaris* (L. f.) G. Don
- ✓14528. *Piptadenia flava* (Spreng.) Benth.
- ✓14543. *Bauhinia unguiculata* L.
- ✓14560. *Acuan virgatum* (L.) Medic
- ✓14585. *Pithecellobium lanceolatum* (H. & B.) Benth.
- ✓14593. *Neptunia prostrata* (Lam.) Baill.
- ✓14595. *Chamaesenna reticulata* (Willd.) Pittier
- ✓14601. *Mimosa pigra* L.
- ✓14621. *Peiranisia biflora* (L.) Pittier
- ✓14630. *Anneslia marginata* (Griseb.) B. & R.
- ✓14632. *Schnella columbiensis* (Vog.) Benth.
- ✓14651. *Anneslia marginata* (Griseb.) B. & R.
- ✓14686. *Chamaefistula bacillaris* (L. f.) G. Don
- ✓14692. *Schnella columbiensis* (Vog.) Benth.
- ✓14700. *Pithecellobium lanceolatum* (H. & B.) Benth.
- ✓14706. *Mimosa pigra* L.
- ✓14759. *Inga marginata* Willd.
- ✓14782. *Chamaefistula oxyphylla* (Kunth) G. Don
- ✓14788. *Mimosa pudica* L.
- ✓14798. *Mimosa santanderensis* B. & R. (type)
- ✓14804. " *pigra* L.
- ✓14851. *Jupunba jupunba* (Willd.) B. & R.
- ✓14918. *Mimosa colombiana* Britton & Killip
- ✓14919. *Chamaefistula killipii* Britton (type)
- ✓14922. *Poinciana pulcherrima* L.
- ✓14935. *Inga popayanensis* Pittier?
- ✓14938. *Mimosa pigra* L.
- ✓14978. *Bauhinia incurva* Britton (type)
- ✓14982. *Anneslia purdiei* (Benth.) B. & R.
- ✓15089. *Chamaecrista pulchra* (H. B. K.) B. & R.
- ✓15113. *Mimosa somnians* H. & B.
- ✓15127. *Chamaecrista pulchra* (H. B. K.) B. & R.
- ✓15180. *Adipera arborea* Britton (type)
- ✓15403. *Chamaefistula speciosa* (Schrad.) G. Don
- ✓15415. *Chamaefistula speciosa* (Schrad.) G. Don
- ✓15419. *Grimaldia colombiana* Britton (type)
- ✓15425. *Mimosa somnians* H. B. K.

K. & S.-

- ✓15459. *Pithecolobium dulce* (Roxb.) Benth.
- ✓15464. *Mimosa floribunda* Willd.
- ✓15477. *Inga santanderensis* Britton (type)
- ✓16173. *Pseudocassia spectabilis* (DC.) B. & R.
- ✓16177. *Anneslia purdiei* (Benth.) B. & R.
- ✓16205. " *santanderensis* B. & R. (type)
- ✓16215. *Pithecolobium dulce* (Roxb.) Benth.
- ✓16255. " " " "
- ✓16264. *Grimaldia viscosa* (H. B. K.) B. & R.
- ✓16268. *Stryphnodendron* (?) *colombianum* B. & K. (type)
- ✓16276. *Chamaefistula subcoriacea* Britton (type)
- ✓16296. *Acaciella holtonii* Britton
- ✓16376. *Mimosa floribunda* Willd.
- ✓16392. *Acaciella santanderensis* Britton
- ✓16400. *Peiranisia mutisiana* (Kunth) Pittier
- ✓16414. *Mimosa killipii* B. & R. (type)
- ✓16433. *Anneslia caracasana* (Jacq.) B. & R.
- ✓16439. *Ditremexa occidentalis* (L.) B. & R.
- ✓16456. *Inga marginata* Willd.
- ✓16457. *Acaciella santanderensis* Britton (type)
- ✓16458. *Tara spinosa* (Mol.) B. & R.
- ✓16459. *Chamaefistula speciosa* (Schrad.) G. Don
- ✓16463. *Anneslia toroana* B. & R.
- ✓16480. *Mimosa floribunda* Willd.
- ✓16483. *Inga obconica* Britton (type)
- ✓16697. *Adipera santanderensis* Britton (type)
- ✓16822. *Tara spinosa* (Mol.) B. & R.
- ✓16828. *Chamaefistula speciosa* (Schrad.) G. Don
- ✓16832. *Anneslia tetragona* (Willd.) Donn. Sm.
- ✓16852. *Mimosa floribunda* Willd.
- ✓16888. " " "
- ✓19066. *Bauhinia picta* (H. B. K.) DC.
- ✓19088. *Inga chartana* Britton (type)
- ✓19345. *Chamaecrista pulchra* (H. B. K.) B. & R.
- ✓19392. *Anneslia caracasana* (Jacq.) B. & R.
- ✓19404. *Peiranisia mutisiana* (Kunth) Pittier
- ✓19415. *Adipera indecora* (H. B. K.) B. & R.
- ✓18447. *Chamaefistula puberula* (H. B. K.) G. Don
- ✓19655. *Chamaesenna velutina* Britton (type)
- ✓19777. *Inga pamplonae* Britton (type)
- ✓19791. *Acaciella santanderensis* Britton (type)
- ✓19807. *Peiranisia mutisiana* (Kunth) Pittier
- ✓20018. *Inga punctata* Willd.
- ✓20038. *Adipera indecora* (H. B. K.) B. & R.
- ✓20039. *Mimosa floribunda* Willd.
- ✓20135. *Inga tapatensis* Britton
- ✓20141. *Anneslia tetragona* (Willd.) Donn. Sm.
- ✓20146. *Chamaecrista arborescens* Britton (type)
- ✓20165. *Inga culagana* Britton (type)
- ✓20500. *Anneslia tetragona* (Willd.) Donn. Sm.
- ✓20505. *Inga punctata* Willd.
- ✓20522. *Anneslia tetragona* (Willd.) Donn. Sm.

- ✓20524. *Inga pseudospuria* Britton (type)
✓20535. *Acuan laetum* B. & R.
✓20538. *Inga punctata* Willd.
✓20750. *Peiranisia santanderensis* Britton (type)
✓20752. *Tara spinosa* (Mol.) B. & R.
✓20753. *Acuan virgatum* (L.) Medic
✓20770. *Inga chinocotana* Britton (type)
✓20777. *Chamaecrista simplex* Standl.
✓20850. *Chamaefistula undulata* (Benth.) Pittier
✓20851. *Anneslia tetragona* (Willd.) Donn. Sm.
✓20861. *Mimosa killipii* B. & R.
✓20886. *Bauhinia mollicella* Blake
✓20889. *Mimosa esmeraldae* Britton (type)
✓20922. *Anneslia smithiana* B. & R. (type)
✓20926. *Anneslia esmeraldae* B. & R. (type)
✓20950. *Ditremexa occidentalis* (L.) B. & R.
✓20974. *Acuan depressum* (H. & B.) Kuntze
✓20983. *Leptoglottis leptocarpa* (DC.) Standl.
✓20989. *Neltuma juliflora* (Sw.) Raf.
✓21010. *Poponax tortuosa* (L.) Raf.
✓21014. *Parkinsonia aculeata* L.
✓21016. *Cercidium praecox* (R. & P.) Harms
✓21039. *Acaciella curassavica* B. & K. (type)
✓21041. *Tamarindus indica* L.
✓21048. *Poponax tortusa* (L.) Raf.
✓21054. *Libidibia coriaria* (Jacq.) Schl.
✓21055. *Acaciella curassavica* B. & K.
✓21062. *Haematoxylon brasiletto* Karst.
✓21063. *Acaciella curassavica* B. & K.
✓21073. *Neltuma juliflora* (Sw.) Raf.
✓21090. *Havardia platyloba* (Spreng.) B. & R.
✓21093. *Poponax flexuosa* (H. & B.) B. & R.
✓21094. *Haematoxylon brasiletto* Karst.
✓21096. *Isandra emarginata* (L.) B. & R.
✓21102. *Petronisia biflora* (L.) Pittier
✓21106. *Haematoxylon brasiletto* Karst.
✓21110. *Acuan depressum* (H. & B.) Kuntze
✓21112. *Leptoglottis hamata* (H. & B.) Standl.
✓21131. *Zygia latifolia* (L.) Fawc. & Rendle
✓21219. *Pseudocassia spectabilis* (DC.) B. & R.

KILLIP & SMITH (COLOMBIA)

Monochaetum

(Determined by H. A. Gleason)

✓17851. *Monochaetum coronatum* Gleason

✓17454. " *venosum* Gleason Type.

✓16014. " " "

✓20334. " " "

✓15741. " *myrtoideum* (Bonfl.) Nand.

✓17312. " "

✓18052. " "

✓18265. " "

✓19589. " "

✓20653. " "

✓16701. " *bonplandii expansum* Gleason Type

✓15934. " *caudatum* Gleason Type

✓15467. " *brachyurum* Nand. /u

✓15517. " "

✓16522. " "

✓16536. " "

✓17447. " "

✓18755. " "

✓19108. " "

✓19478. " "

✓20182. " "

✓15777. " *ciliatum* Gleason Type.

COLOMBIAN SPECIMENS OF PASSIFLORA COLLECTED BY KILLIP & SMITH-1926.
Identified at U. S. National Herbarium by E. P. Killip.

Passiflora

- auriculata* H. B. K. ✓14811.
- biflora* Lam. ✓14650, 20868, 21012.
- bogetensis* Benth. ✓15506, 16111, 16607, 17196, 18000, 18146, ✓19234, 19243.
- bracteosa* Planch. & Linden. ✓15926, 16889, 18320.
- bucaramangensis* Killip ✓15364, 16787 (type), 17046, 18842, 19508.
- capsularis* L. ✓16477, 19037, 19044, 19340.
- ceriacea* Juss. ✓14415, 14970, 16343, 19062, 21156.
- cuneata* Willd.? ✓14978, 15454, 15951, 16175, 16223, 16344, ✓16412, ✓16452, 16527, 17717, 17923, 18599, ✓19420, 20408 (barren).
- cuspidifolia* Harms? ✓15320 (barren)
- erioaula* Harms 17200.
- foetida* L. ✓14705, 21038, 21103.
- foetida hirsuta* Mast. 21035, 21078, 21088.
- guazumifolia* Juss. ✓14800.
- hispida* DC. ✓14963, 21000.
- hyacinthiflora* Pl. & Linden. ✓15935, 17753, 18158, 19849.
- kalbreyeri* Mast. ✓19775, 19801, 20284, 20493, 20557.
- lecomteana* Killip ✓18100. (*P. trisecta* Pl. & Linden, not *Tacsonia trisecta* Mast.) ✓
- ligularis* Juss. ✓15227, 16511, 17197, 19104, 20136.
- longipes* Juss. ✓15911.
- maliformis* L. ✓14958, 15453.
- manicata* (Juss.) Pers. ✓20022, 20547.
- menispermifolia* H. B. K. ✓14945.
- mixta* L. f. ✓15576, 17148, 17373, 17235, 17825, 17831, ✓17920, 18210, 18501, 19685, 19712.
- mollissima* (H. B. K.) Bailey ✓19529, 19681.
- cerstedii* Mast. 5555, 5682, 6115, 9064, 11662. (Pennell-Killip no. 1)
- perlobata* Killip ✓20879.
- pinnatistipula* Cav. ✓19700.
- pubera* Tr. & Planch. ✓19050, 19051, 19061, 19400.
- pulchella* H. B. K. ✓20772.
- quadrangularis* L. ✓14734, 14823.
- rugosa* (Mast.) Tr. & Planch. ✓19871.
- seemannii* Griseb. ✓14969, 19342.
- smithii* Killip ✓15015 (type).
- suberosa* L. ✓14164, 14168, 14329, 14479, 15029, 16834, ✓18398, 20887, 21044.
- subpeltata* Ortega ✓14398.
- vitifolia* H. B. K. ✓14739.
- ✓16893, 18358, 19280, 19376, 20227 not determinable; juvenile specimens without flowers or fruit.

v = names changed in hook. list

G. A. G.

Killip & Smith, Colombia

Ranunculaceae; det. Ulbrich

(Reported by U.S.N.M. June 1939)

- ✓ 14983. *Clematis dioica* L.
→ ✓ 15599. *Ranunculus bonariensis* Poir. (bonariensis)
← ✓ 15663. " *mandonianus* Wedd.
• ✓ 15685. " *peruvianus* Poir.
✓ 15927. " *cf. bonplandianus* H.B.K.
→ ✓ 16099. *Clematis dioica* L.
✓ 16329. " "
→ ✓ 16682. " "
✓ ✓ 17358. *Ranunculus flagelliformis* Sm.
→ ✓ 17670. " *cf. tridentatus* H.B.K.
✓ 18181. " *bonariensis* Poir.
✓ 18372. " *cf. bonplandianus* H.B.K.
✓ 18609. " *bonplandianus* H.B.K.
✓ 19549. " *mandonianus* Wedd.
✓ 21221. " *bonariensis* Poir.

Our 19549 is an *Eleocharis*!

Killip & Smith, Colombia

Det. R. Gross

- ✓ 18093. *Carex bonplandii* Kunth
✓ 18528. *Carex brehmeri* Boeck.

Rubiaceae

The following are types:

- 14959 *Schizocalyx hirsutus* Standl., sp. nov.
- ✓ 15154 *Palicourea semirasa* Standl.
- ✓ 15246 *Rudgea Killipii* Standl.
- ✓ 15504 *Rondeletia glabrata* Standl.
- ✓ 16058 *Manettia rivularum* Standl.
- ✓ 16631 *Psychotria pedocephala* Standl.
- ✓ 16811 *Manettia suratensis* Standl.
- ✓ 17080 *Psychotria amita* Standl.
- ✓ 17209 *Palicourea lutulenta* Standl.
- ✓ 19034 *Hoffmannia glabra* Standl.
- ✓ 19207 *Borreria chartensis* Standl.
- ✓ 19265 *Hoffmannia triosteoides* Standl.
- ✓ 20393 *Palicourea demissa* Standl.
- ✓ 20562 " *effusa* Standl.
- ✓ 20569 *Paramea Killipii* Standl.
- ✓ 20700 *Palicourea Albert-Smithii* Standl.
- ✓ 20855 *Manettia calycosa* Griseb. var. *latifolia* Standl.

Scary

COLOMBIAN SCROPHULARIACEAE

Collected by Killip & Smith

Det. Pennell

* indicates probably
reported as such
already.

Alonsea meridionalis (L.f.) Kuntze - 15584*, 16871*, 17234, 17786*, 17786*,
18200*, 18754*, 19488*, 20185*, 21143*.

Aragoa lycopodioides Benth. - 18188*, 18572*, 19582*, 19621*, 21173*.

Bartsia santolinaefolia (H.B.K) 17948.

Buchnera virgata H.B.J. - 16339 (rather than *B. longifolia*)

Capraria biflora L. - 14057*.

Capraria biflora f. *hirta* Loes - 14029*, 14451*, 14636*.

Digitalis purpurea L. - 17246*.

Escobedia parvifolia Pennell - 17210*.

Gratiola peruviana L. - 16015, 19892 (*G. bogotensis*, syn.).

Lamourouxia serratifolia H.B.K. - 17330, 17991.

Leucocarpus perfoliatus (H.B.K.) Benth. - 15540*, 17039*, 17106*, 18859*,
20352.

Maurandya barclaiana Lindl. - 16821*.

Minulus glabratus H.B.K. - 16707*, 16788*, 18131*.

Herpestis lilacina Pennell - 15034 (*Monocardia lilacina*, syn.).

Scoparia dulcis L. - 14582*, 14280*.

Sibtharpia repens (L.) Kuntze - 15560*, 17754*, 20667*.

Stemodia durantifolia (L.) Sw. - 20933*.

Vandellia diffusa - 14884*.

Veronica serpyllifolia humifusa (Dickson) Vahl - 17572, 15672, 17676, 17772.

✓ Killip & Smith 15156. *J. nervosa* Poir. (not *J. lithospermifolia*)

Jussiaea

5

Killip & Smith - Colombia
Solanum, det. C. V. Morton

-
- 14060. *S. nigrum* L.
 - 14080. *S. allophyllum* Standl. (syn. *S. ellipsoideibaccatum* Bitter)
 - 14454. *S. lanceifolium* Jacq.
 - 14540. *S. hirtum* Vahl
 - 14548. *S. lanceifolium* Jacq. (not *asperrimum*)
 - 14647. *S. nigrum* L.
 - 14701. *S. lanceifolium* Jacq. (not *asperrimum*)
 - 14741. *S. hirtum* Vahl
 - 14769. *S. Scabrum* Vahl (not *asperrimum*)
 - 14854. *S. jamaicense* Mill.
 - 15071. *S. asperrimum* Moritz
 - 15076. *S. hirtum* Vahl
 - 15412. *S. subinerme* Jacq.
 - 15513. *S. chamaecerasus* Bitter ined.
 - 15526. *S. scorpoideum* Rusby
 - 15554. *S. nollanum* Britt.
 - 15569. *S. gollmeri* Bitter
 - 15692. *S. jahnii* Bitter
 - 16178. *S. jubatum* Willd.
 - 16450. *S. hirtum* Vahl
 - 16614. *S. Nollanum* Britt.
 - 16680. *S. stellatiglandulosum* Bitter
 - 16949. *S. nollanum* Britt.
 - 16957. *S. nigrum* L.
 - 17097. *S. scorpoideum* Rusby
 - 17249. *S. callianthum* Morton (not *S. venosum*)
 - 18010. *S. scorpoideum* Rusby
 - 18050. *S. hispidum* Pers.
 - 18896. *S. nigrum* L. var.
 - 18913. *S. nollanum* Britt.
 - 19089. *S. chamaecerasus* Bitter ined.
 - 19092. *S. scabrum* Vahl
 - 19208. *S. stellatiglandulosum* Bitter (not *S. scorpoideum*)
 - 19468. *S. micranthum* Willd.
 - 19505. *S. chamaecerasus* Bitter ined.
 - 19682. *S. stellatiglandulosum* Bitter (not *S. scorpoideum*)
 - 19798. *S. asperrimum* Moritz
 - 19920. *S. gollmeri* Bitter
 - 20134. *S. scabrum* Vahl
 - 20415. *S. dissimile* Morton n. sp. type
 - 20475. *S. asperrimum* Mortiz
 - 20546. *S. scabrum* Vahl
 - 20795. *S. nigrum* L.
 - 20820. *S. hirtum* Vahl
 - 20911. *S. nigrum* L.
 - 20949. *S. hirtum* Vahl

Dolan

Killip & Smith (Colombia)

- ✓ 14383. *verbascifolium* var. *adulterinum* (Ham.) Don
- 15450. *umbellatum* Mill.
- " 16531. *chamaecerasus* Bitt.
- 16541. *suaveolens* Kth. & Bonchi
- ✓ 14667. *verbascifolium* var. *adulterinum* (Ham.) Don
- 2 → 16681. *macrotomum* Bitt.?
- 16688. *jahnii* Bitt.
- ✓ 14770. *killipii* Morton (type)
- 15762. *oblongifolium* H. & B.
- ✓ 15850. *oblongifolium* H. & B.
- ✓ 15952. *luculentum* Morton
- ✓ 16466. *Wendlandi* Hook.
- ✓ 16473. *umbellatum* Mill.
- ✓ 16681. *gollmeri* Bitt.
- ✓ 16879. *jahnii* Bitt.
- ✓ 16900. *caripense* H. & B.
- ✓ 16947. *oblongifolium* H. & B.
- ✓ 16948. *jahnii* Bitt.
- 16970. *gollmeri* Bitt.
- 16983. *oblongifolium* H. & B.
- ✓ 17011. *macrotomum* Bitt.
- 17156. *oblongifolium* H. & B.
- ✓ 17192. *jahnii* Bitt.
- ✓ 17249. *venosum* H. & B.
- ✓ 17267. *endotrichum* Bitt.
- 17302. *oblongifolium* H. & B.
- ✓ 17313. *endotrichum* Bitt.
- ✓ 17327. *endotrichum* Bitt.
- ✓ 17351. *oblongifolium* H. & B.
- ✓ 17388. *endotrichum* Bitt.
- ✓ 17389. *oblongifolium* H. & B.
- ✓ 17408. *jahnii* Bitt.
- 17863. *oblongifolium* H. & B.
- ✓ 17887. *oblongifolium* H. & B.
- ✓ 17910. *endotrichum* Bitt.
- ✓ 17915. *jahnii* Bitt.
- ✓ 17916. *endotrichum* Bitt.
- ✓ 17969. *bogotense* Dunas
- ✓ 17996. *macrotomum* Bitt.
- ✓ 18021. *caripense* H. & B. var.
- ✓ 18090. *gollmeri* Bitt.
- ✓ 18132. *gollmeri* Bitt.
- ✓ 18318. *juglandifolium* H. & B.
- ✓ 18490. *gollmeri* Bitt.
- ✓ 18711. *oblongifolium* H. & B.
- ✓ 18731. *gollmeri* Bitt.
- ✓ 18956. *gollmeri* Bitt.
- 18994. *monticola* Morton
- 19089. *maleolens* Macbr.
- ✓ 19178. *monticola* Morton
- ✓ 19249. *oblongifolium* H. & B.
- 19260. *extensum* Bitt.
- ✓ 19524. *oblongifolium* H. & B.

Killip & Smith (Colombia)

- ✓ 19825. caripense H. & B.
- ✓ 20011. macrotomum Bitt.
- ✓ 20068. maleolens Macbr.
- ✓ 20070. maleolens Macbr.
- ✓ 20154. oblongifolium H. & B.
- ✓ 20156. maleolens Macbr.
- ✓ 20235. moritzianum Bitt.
- ✓ 20723. gollmeri Bitt.
- ✓ 20747. Seaforthianum Andr.
- ✓ 20856. umbellatum Mill.
- ✓ 20908. verbascifolium var. adulterinum (Ham.) Don.
- ✓ 20946. suaveolens Kth. & Bonch^E
- ✓ 20956. migrum var. americanum (Mill.) Schmlz.

fm-7

LIST OF VIBURNUM SPECIES COLLECTED IN SOUTH AMERICA
BY KILLIP & SMITH--1926.

- floccosum K. & S. ✓ 16916, 18082 (type), 18869.
leptophyllum K. & S. ✓ 16083, 16638, 16931, 17055 (type), 17083,
 19098, 19226, 19310
leptophyllum venezuelense K. & S. 15006, 15068, 15116.
pichinchense teledense K. & S. ✓ 19911, 20107, 20184, 20589 (type),
 ✓ 20615✓
suratense K. & S. ✓ 15864, 16743 (type), 18766.

DETERMINATIONS OF WEINMANNIA COLLECTED IN SOUTH AMERICA BY
KILLIP & SMITH--1926

- Weinmannia balbisiana H. B. K. 19766.
- " caripensis H. B. K. 15105, 15897, 19809, 15987.
- " crenata Presl 16109, 16745, 18041, 18887, 19305, 19461,
19516, 19797, 20050.
- " fagaroides H. B. K. 15737, 17747, 17930, 18656, 19590.
- " multijuga K. & S. 20597, type. 16134, 19907, 20637.
- " Stuebelii Hieron. 18042.
- " tomentosa L. f. 15853, 18037, 18194, 19707, 20625, 18392.
- " vegasana K. & S. ✓ 15840, type.

G

Killip-Smith, Colombia.

- ✓14005. Beureria cumanensis (Loefl.) Schulz
- ✓14086. Missolia fruticosa Jacq. (Exact match for type at Brit. Mus., which has long inflorescences)
- ✓14112. Caesalpinia crista L.
- ✓14300. Bauhinia pauletia Pers. (Det. N. L. B.)
- ✓14302. Desmodium albiflorum Salzm.
- ✓14396. Trigonia membranacea A. C. Smith (type)
- ✓14414. Morisonia americana L.
- ✓14429. Desmodium uncinatum (Jacq.) DC.?
- ✓14448. Parosela barbara (Oerst.) Rydb.
- ✓14635. Nephromeria infracta (DC.) Schindl.
- ✓14695. Lonchocarpus punctatus H. B. K.
- ✓14760. Desmodium axillare (Sw.) DC.
- ✓14763. Renealmia strobilifera P. & E.
- ✓14827. Desmodium molliculum (H. B. K.) DC.
- ✓14911. " barbatum (L.) Benth.
- ✓14979. Megaskepasma erythrochlamys Lindau (Erroneously reported as 14779)
- ✓15171. Sphyrospermum buxifolium P. & E. (Det. A. C. Smith)
- ✓15242. Rynchospora caracasana (Kunth) Boeckl. (Det. Gross)
- ✓15394. Trigonia sericea H. B. K.
- ✓15485. Carex cladostachya Wahl (Det. Gross)
- ✓15649. Xyris acutifolia (Heimerl) Malme
- ✓15868. Disterigma alaternoides (H. B. K.) Ndz.
- ✓15873. Guzmania candelabrum André
- ✓15958. Guzmania coriostachya (Griseb.) Mez
- ✓16000. Desmodium adscendens (Sw.) DC.
- ✓16005. Cyperus niger R. P. (C. melanostachyus H. B. K.; det. Gross)
- ✓16062. Carex purdiei Boott (Det. Gross)
- ✓16437. Polymnia riparia H. B. K.
- ✓16444. Desmodium uncinatum (Jacq.) DC.
- ✓16591. Desmodium campylocladum Hemsl.
- ✓16634. Marcgravia rectiflora Tr. & Pl.?
- ✓16837. Parosela coerulea (L. f.) Macbr.
- ✓16854. Phaseolus erythroloma Mart.
- ✓17119. Carex cladostachya Wahl (Det. Gross)
- ✓17143. Psoralea mexicana (L. f.) Vail
- ✓17290. Lupinus santanderensis C. P. Smith (type)
- ✓17409. Plantago (aff. P. linearis H. B. K.)
- ✓17727. Vaccinium moritzianum oblongum Kl.
- ✓17775. Oreopanax cyclophyllus Harms (type)
- ✓18007. Parosela coerulea (L. f.) Macbr.
- ✓18043. Polymnia pyramidalis Triana
- ✓18093. Carex bonplandii Kunth (Det. Gross)
- ✓18376. Oreopanax santanderianus Harms (type)
- ✓18391. Aragoa lycopodioides Benth. (Det.) Pennell
- ✓18503. Lupinus mutabilis Sweet
- ✓18572. Aragoa lycopodioides Benth. (Det. Pennell)
- ✓19582. Aragoa lycopodioides Benth. (Det. Pennell)
- ✓18687. Oreopanax killipii Harms (type)

K.-S., Colombia-2

- ✓18689. *Greigia columbiana* L. B. Smith (type)
- ✓18694. *Lupinus humifusus famelicus* C. P. Smith (type)
- ✓18909. *Vaccinium caracasanum* H. B. K.
- ✓18953. *Carex purdiei* Boott (Det. Gross)
- ✓19023. *Psoralea mexicana* (L.f.) Vail
- ✓19049. *Macrocnenum latilimum* Standl.
- ✓19120. *Psoralea mexicana* (L. f.) Vail
- ✓19489. *Carex cladostachya* Wahl. (Det. Gross)
- ✓19504. *Parosela caerulea* (L. f.) Macbr.
- ✓19621. *Aragoa lycopodioides* Benth. (Det. Pennell)
- ✓19632. *Lobelia tenera* H. B. K.
- ✓19654. *Ligustrum lucidum* Ait.
- ✓19693. *Polymnia pyramidalis* Triana
- ✓19697. *Panopsis suaveolens* (Kl.) Pittier (Det. A. C. Smith)
- ✓19888. *Psoralea mexicana* (L. f.) Vail
- ✓20078. *Carex cladostachya* Wahl. (Det. Gross)
- ✓20195. *Guzmania mitis* L. B. Smith (type)
- ✓20252. *Sphyrospermum cordifolium* Benth.
- ✓20484. *Polymnia pyramidalis* Triana
- ✓20688. *Gaulthera ramosissima* Benth.
- ✓20799. *Polymnia riparia* H. B. K.
- ✓20910. *Phaseolus erythroloma* Mart.
- ✓20978. *Ruellia tuberosa* L. (Det. Leonard)
- ✓21057. *Beureria succulenta* Jacq.
- ✓21191. *Fuchsia Hybrida* Voss.

Colombia:

Killip & Smith:

- ✓14020. Hippocratea verrucosa HBK. (type loc.) (comp. type at P.)
 ✓14116. " "
 ✓14115. Bursera glabra (Jacq.) Tr. & Pl. (approx. type loc.)
 (ex illustr.)
 ✓14192. Celtis aculeata Sw.
 ✓14207. Gouania tomentosa Jacq.
 ✓14326. Bombax cumanense HBK. (comp. type at P.)
 ◊14384. (N) Phthirusa pyrifolia (HBK.) Eichl.
 ✓14547. Lecythis elliptica HBK. (comp. type at P.)
 ✓14590. Cissus erosa L.C.Rich.
 ✓14655. Disciphania appendiculata Diels
 ✓14657. Zizyphus strychnifolia Tr. & Pl.
 ✓14704. Cissus erosa L.C.Rich.
 ✓14742. " " "
 ✓14817. Gouania tomentosa Jacq.
 ✓14881 Chelonanthus acutangulus (R. & P.) Gilg
 ✓14905. Corynostylis arborea (L.) Blake
 ◊✓14977. Phthirusa theobromae (Willd.) Eichl.
 ✓14983. Clematis caripensis HBK.
 ✓14998. Chelonanthus angustifolius (HBK.) Gilg (comp. type at P.)
 ✓15001. Bejaria subserrata Fedtsch. & Basil. (type loc.) (comp.
 type coll. at P.)
 ✓15122. Clusia petiolaris Pl. & Tr. (comp. type coll. at K.)
 ✓15217. Rhytidanthera sulcata v.Tiegh. (comp. type at P.)
 ✓15220. Persea Mutisii HBK.
 ✓15380. Smilax Poopigii Kunth
 ✓15456. (N) Smilax cumanensis H. & B.
 ✓15476. Ficus gigantea HBK. (comp. type at P.) -
 ✓15575. Monnieria mollis Pl. & Lind.
 ✓15668. (N) Sisyrinchium bogotense HBK.
 ✓15788. Vaccinium caracasanum HBK.
 ✓15815. Gaultheria rigida HBK.
 ✓15837. Gaultheria buxifolia Willd.
 ✓15855. Gaultheria rigida HBK.
 ✓15894. Ilex uniflora Benth.
 ✓15905. Symbolanthus latifolius Gilg
 ✓15913. Gaultheria rigida HBK. (comp. type at P.)
 ✓15985. Disterigma alaternoides (HBK.) Nied.
 ✓15988. Gaultheria buxifolia Willd.
 ✓16039. Siparuna venezuelensis Perk.
 ✓16089. Hydrangea durifolia Briq. (comp. type at C.)
 ✓16106. Cissampelos pareira L. v. Haenkeana Presl
 ✓16209. Bombax barrigon (Seem.) Decne. (comp. type at K.)
 ✓16260. Bredemeyera lucida (Benth.) Henn.
 ✓16326. Aristolochia maxima Jacq. (!O.C.Schmidt)
 ✓16329. Clematis caripensis HBK.
 ✓16319. Phthirusa pyrifolia (HBK.) Eichl.
 ✓16331. Bombax barrigon (Seem.) Decne.
 ✓16361. Trichilia alba C.DC. var. (det. Harms)
 ✓16383. Daphnopsis tinifolia (Sw.) Meissen.
 ✓16552. Smilax tomentosa HBK.
 ✓16620. Panopsis suaveolens (Kl.) Pittier (comp. type at B.)
 ✓16758. Boussingaultia baselloides HBK. (comp. type at P.)
 ✓16765. Gaultheria buxifolia Willd.

Killip & Smith (cont.):

- ✓16766. *Vaccinium caracasanum* HBK.
 ✓16767. " "
 ✓16907. " "
 ✓16939. *Cissus rhombifolia* Vahl
 ✓17056. *Clethra repanda* Turcz. (comp. type coll. at K.)
 ✓17085. *Picramnia corallodendron* Tul.
 ✓17096. *Cleome gigantea* L.
 ✓17126. *Gaultheria rigida* HBK.
 ✓17274. *Bejaria resinosa* Mutis
 ✓17350. *Cleome anomala* HBK. (comp. type at P.)
 ✓17352. *Berberis Guilache* Tr. & Pl.
 ✓17420. *Monnina densa* Pl. & Lind.
 ✓17504. *Pernettya Pentlandii* DC. v. *parvifolia* (Benth.) Wedd.
 ✓17552. (N) *Sisyrinchium pusillum* HBK.
 ✓17558. *Vaccinium floribundum* HBK.
 ✓17608. " "
 ✓17637. *Pernettya Pentlandii* DC. v. *parvifolia* (Benth.) Wedd.
 ✓17668. " " " "
 ✓17719. *Bejaria resinosa* Mutis
 ✓17727. *Vaccinium moritzianum* Kl. v. *oblongum* Kl.
 ✓17785. *Disterigma alaternoides* (HBK.) Nied.
 ✓17791. *Disterigma empetrifolium* (HBK.) Nied.
 ✓17886. *Daphnopsis bogotensis* Meissn. (comp. type at K.)
 ✓17890. *Monnina mollis* Pl. & Lind. (comp. type coll. at K.)
 ✓17918. *Pernettya myrsinoides* (HBK.) Zucc.
 ✓17927. *Monnina densa* Pl. & Lind.
 ✓17936. *Orthrosanthus chimboracensis* (HBK.) Baker
 ✓18040. *Gaultheria rigida* HBK.
 ✓18048. *Gaultheria scabra* Willd.
 ✓18049. *Gaultheria buxifolia* Willd.
 ✓18153. *Ocotea calophylla* Mez
 ✓18213. *Bejaria resinosa* Mutis
 ✓18264. *Gaultheria buxifolia* Willd.
 ✓18300. *Picramnia corallodendron* Tul. (comp. type at P.)
 ✓18368. *Gaultheria rigida* HBK.
 ✓18371. *Smilax floribundum* Kunth.
 ✓18381. *Monnina elongata* Pl. & Lind. (comp. type coll. at K.)
 ✓18383. *Vaccinium caracasanum* HBK.
 ✓18390. *Bejaria resinosa* Mutis
 ✓18415. *Pernettya Pentlandii* DC. v. *parvifolia* (Benth.) Wedd.
 ✓18418. *Vaccinium floribundum* HBK.
 ✓18468. " "
 ✓18535. *Sisyrinchium bogotense* HBK.
 ✓18633 *Pernettya Pentlandii* DC. v. *parvifolia* (Benth.) Wedd.
 ✓18636. *Disterigma empetrifolium* (HBK.) Nied.
 ✓18657. *Sisyrinchium bogotense* HBK.
 ✓18768. *Disterigma alatencoides* (HBK.) Nied.
 ✓18819. *Clethra fagifolia* HBK. (comp. type at P.)
 ✓18894. *Vaccinium caracasanum* HBK.
 ✓18898. " "
 ✓18905. *Gaultheria buxifolia* Willd.
 ✓18909. *Vaccinium caracasanum* HBK.
 ✓18911. *Cissus rhombifolia* Vahl
 ✓18929. *Gaylussacia buxifolia* HBK.
 ✓18934. *Gaultheria rigida* HBK.

Killip & Smith (cont.):

- ✓18973. *Siparuna venezuelensis* Perk.
 ✓19150. " " "
 ✓19177. " " "
 ✓19299. *Gaultheria buxifolia* Willd.
 ✓19307. " " "
 ✓19326. *Smilax floribunda* Kunth.
 ✓19470. *Picramnia gracilis* Tul.
 ✓19530. *Vaccinium moritzianum* Kl. v. *oblongum* Kl. (comp. type at B.)
 ✓19531. *Bejaria resinosa* Mutis
 ✓19570. *Monnina densa* Pl. & Lind.
 ✓19575. *Pernettya Pentlandii* DC. v. *parvifolia* (Benth.) Wedd.
 ✓19610. *Gaultheria bracteata* (Cav.) G. Don
 ✓19709. *Gaultheria buxifolia* Willd.
 ✓19722. " " " (comp. type at B.)
 ✓19758. *Maytenus Jamesonii* Briq. (comp. type coll. at K.)
 ✓19815. *Bejaria lindeniana* Hering (comp. type at P.)
 ✓19836. *Symbolanthus tricolor* Gilg
 ✓19877. *Lagenanthus princeps* (Lindl.) Gilg (comp. type at K.)
 ✓20027. *Symbolanthus tricolor* Gilg
 ✓20203. *Prunus recurviflora* Koehne (comp. type at B.)
 ✓20283. *Monnina mollis* Pl. & Lind.
 ✓20515. *Nectandra reticulata* (R. & P.) Mez
 ✓20577. *Gaultheria buxifolia* Willd.
 ✓20579. *Symbolanthus tricolor* Gilg (type loc.) (comp. type at B.)
 ✓20596. *Persea Mutisii* HBK.
 ✓20610. *Clethra bicolor* HBK. (comp. type at P.)
 ✓20626. *Ternstroemia meridionalis* Mutis v. *nigricans* Choisy
 ✓20671. *Disterigma alaternoides* (HBK.) Nied.
 ✓20677. *Ternstroemia meridionalis* Mutis v. *nigricans* Choisy
 ✓20678. *Disterigma alaternoides* (HBK.) Nied.
 ✓20679. *Rhamnus Goudotianus* Tr. & Pl.
 ✓20682. *Gaultheria rigida* HBK.
 ✓20687. *Bejaria resinosa* Mutis
 ✓20703. *Gaultheria buxifolia* Willd.
 ✓20740. *Dendrophthora squamigera* (Benth.) B. & H. (comp. type at K.)
 ✓20882. *Ocotea macropoda* (HBK.) Mez vel aff.
 ✓20893. *Gouania pubescens* Lam.
 ✓20896. *Bredemeyera floribunda* Willd.
 ✓20899. *Ocotea Bofo* HBK. (comp. type at P.)
 ✓20914. (N) *Phthirusa pyrifolia* (HBK.) Eichl.
 ✓20998. *Ayenia magna* L.
 ✓21081. *Struthanthus orbicularis* (HBK.). Blume
 ✓21132. *Gouania tomentosa* Jacq.
 ✓21161. *Siparuna venezuelensis* Perk. (comp. type coll. at K.)
 ✓21179. *Vaccinium floribundum* HBK. (comp. type ~~coll.~~ at P.)

KILLIP & SMITH -- COLOMBIA

G

(det. Standley)

- ✓14023. *Alternanthera brasiliiana* (L.) Kuntze
✓14055. " " " "
Ju 14065. *Amaranthus dubius* Mart.
✓14114. *Alternanthera brasiliiana* (L.) Kuntze
✓14389. *Amaranthus dubius* Mart.
Ju 14446. *Alternanthera ficoidea* (L.) R. Br.
✓14580. " *polygonoides* (L.) R. Br.
Ju 14725. " *ficoidea* (L.) R. Br.
✓16194. *Iresine celosia* L.
Ju 16206. *Pfaffia iresinoides* (H.B.K.) Spreng.
✓16460. *Alternanthera elongata* (Willd.) Standl.
Ju 16470. *Pfaffia iresinoides* (H.B.K.) Spreng.
✓16693. *Iresine celosia* L.
Ju 16754. *Alternanthera repens* (L.) Kuntze
✓16974. *Iresine celosia* L.
✓16998. *Alternanthera elongata* (Willd.) Standl.
✓17116. *Iresine argentea* (Mart.) D. Dietr.
✓17311. " *celosia* L.
✓17384. *Iresine celosia* L.
✓17896. " " "
✓18338. " " "
✓19129. " *spiculigera* Seub.
✓19264. " *celosia* L.
✓Ju 19661. *Amaranthus hybridus* L.
✓20035. *Alternanthera microcephala* var. *laticeps* Standl.
✓20459. " " " " "
✓20501. " *elongata* (Willd.) Standl.
✓20925. *Cyathula achyranthoides* (H.B.K.) Moq.
Ju ✓20890. *Pfaffia iresinoides* (H.B.K.) Spreng.
✓21011. *Chamissoa altissima* (Jacq.) H.B.K.

LIST OF DETERMINATIONS OF THE KILLIP & SMITH COLOMBIAN COLLECTION.

Compositae named by Dr. S. F. Blake
Cuscuta named by T. G. Yuncker

- ✓14037. *Spilanthes urens* Jacq.
✓14042. *Mentzelia aspera* L.
✓14092. *Coccobolis uvifera* (L.) Jacq.
✓14169. *Melampodium divaricatum* (Rich.) DC.
✓14223. *Elvira biflora* (L.) DC.
✓14242. " " "
✓14249. *Milleria quinqueflora* L.
✓14282. *Tridax procumbens* L.
14322 ✓14323. *Spilanthes urens* Jacq.
✓14646. *Lactuca intybacea* Jacq.
✓15111. *Ichthyothere terminalis* (Jacq.) Blake
o 15255. *Erechtites hieracifolia* (L.) Raf.
✓15436. *Trixis radialis* (L.) Kuntze
✓15443. *Cosmos caudatus* H. B. K.
✓15537. *Erechtites valerianaeifolia* (Wolf) DC.
✓15828. *Achyrocline crassipes* Blake
✓15833. *Chrysanthemum parthenium* (L.) Bernh.
o 15870. *Sonchus oleraceus* L.
✓16184. *Trixis radialis* (L.) Kuntze
✓16417. *Cuscuta corymbosa* R. & P.
✓16624. *Aster marginatus* H. B. K.
✓16672. *Jaegeria hirta* (Lag.) Less.
✓16762. *Erigeron karvinskianus* DC.
✓17021. " " "
✓17194. *Franseria artemisioides* Willd.
✓17375. *Mutisia clematitidis* L. f.
✓17500. *Loricaria complanata* (Sch. Bip.) Wedd.
o 17563. *Diplostephium revolutum* Blake
✓17629. *Diplostephium revolutum* Blake
✓17652. " " "
✓17884. *Franseria artemisioides* Willd.
✓17906. *Cuscuta grandiflora* H. B. K.
✓18234. *Achyrocline crassipes* Blake
✓18484. *Aster marginatus* H. B. K.
✓18496. *Achyrocline crassipes* Blake
o 18634. *Diplostephium revolutum* Blake
✓18668. *Aster marginatus* H. B. K.
✓18695. *Diplostephium revolutum* Blake
✓18714. *Achyrocline crassipes* Blake
✓18763. *Erigeron bonariensis* L.
✓18787. " "
✓19022. *Loasa triphylla papaverifolia* (H. B. K.) Urb. & Gilg
✓19122. *Sonchus oleraceus* L.
✓19600. *Mutisia clematitidis* L. f.
✓19638. *Aster marginatus* H. B. K.
✓19645. *Cuscuta grandiflora* H. B. K.

- ✓19663. *Aster marginatus* H. B. K.
✓19671. *Chrysanthemum parthenium* (L.) Bernh.
✓19676. *Franseria artemisioides* Willd.
✓20003. *Aster marginatus* H. B. K.
✓20180. *Cuscuta corymbosa* R. & P.
✓20392. *Loassa triphylla papaverifolia* (H. B. K.) Urb. & Gilg
✓20683. *Sonchus oleraceus* L.
✓20906. *Pluchea odorata* (L.) Cass.
✓20947. *Trixis radialis* (L.) Kuntze
✓20968. " " " "
✓20973. *Tessaria integrifolia* R. & P.
✓20982. *Tridax procumbens* L.
✓21019. *Isocarpha oppositifolia* (L.) R. Br.
✓21023. *Elvira biflora* (L.) DC.
✓21045. *Cuscuta americana* L.
✓21071. *Egletes humifusa* Less.
✓21183. *Sonchus oleraceus* L.

(143)

PLANTS COLLECTED IN SOUTH AMERICA BY KILLIP & SMITH--1926

- ✓ 14065 *Amaranthus dubius* Mart.
- ✓ 14270 *Aristolochia inflata* H. B. K.
- ✓ 14278 *Chenopodium ambrosioides* L.
- ✓ 14279 *Argemone mexicana* L.
- ✓ 14347 *Mirabilis jalapa* L.
- ✓ 14378 *Boerhaavia erecta* L.
- ✓ 14395 *Trema micrantha* (L.) Blume
- ✓ 14435 *Capparis flexuosa* L.
- ✓ 14446 *Alternanthera ficoidea* (L.) Lam.
- ✓ 14455 *Capparis flexuosa* L.
- ✓ 14520 *Callisia repens* L.
- ✓ 14541 *Aristolochia inflata* H. B. K.
- ✓ 14602 *Cleome spinosa* L.
- ✓ 14615 *Sagittaria latifolia* Willd. (form)
- ✓ 14659 *Campelia zanonia* (L.) H. B. K.
- ✓ 14725 *Alternanthera ficoidea* (L.) Lam.
- ✓ 14818 *Chamissoa altissima* (Jacq.) H. B. K.
- ✓ 14893 *Gomphrena globosa* L.
- ✓ 14906 *Cleome spinosa* L.
- ✓ 14927 *Naias guadalupensis* (Spreng.) Morong
- ✓ 15013 *Tradescantia cumanensis* Kunth
- ✓ 15256 *Hypoxis decumbens* L.
- ✓ 15296 *Quercus humboldtii* Bonpl.
- ✓ 15399 *Arenaria lanuginosa* (Michx.) Rohrb.
- ✓ 15525 *Tovaria diffusa* (Macf.) F. & R.
- ✓ 15538 *Arenaria lanuginosa* (Michx.) Rohrb.
- ✓ 15557 *Bocconia frutescens* L.
- ✓ 15600 *Urtica ballotaefolia* Wedd.
- ✓ 15603 *Montia fontana* L.
- ✓ 15614 *Cerastium glutinosum* H. B. K.
- ✓ 15721 *Orthrosanthes chimboracensis* (H. B. K.) Baker
- ✓ 15728 *Montia fontana* L.
- ✓ 15789 *Calandrinia caulescens* H. B. K.
- ✓ 15895 *Quercus humboldtii* Bonpl.
- ✓ 15998 *Myrica pubescens* Willd.
- ✓ 16027 *Tropaeolum coccineum* Hughes
- ✓ 16095 " *flatipilum* Killip (type)
- ✓ 16142 *Drymaria gracilis* C. & S.
- ✓ 16206 *Pfaffia iresinoides* (H. B. K.) Ktze.
- ✓ 16230 *Chlorophora tinctoria* (L.) Gaud
- ✓ 16241 *Trema micrantha* (L.) Blume
- ✓ 16359 *Dorstenia houstoni* L.
- ✓ 16428 *Salix humboldtiana* Willd.
- ✓ 16470 *Pfaffia iresinoides* (H. B. K.) Ktze.
- ✓ 16633 *Campelia zanonia* (L.) H. B. K.
- ✓ 16744 *Quercus humboldtii* Bonpl.
- ✓ 16754 *Alternanthera halimifolia* (Lam.)

14310
19701

- ✓16801 *Chenopodium ambrosioides* L.
 ◉16806 *Tradescantia multiflora* Sw.
 ✓16833 *Salix humboldtiana* Willd.
 ✓16912 *Eccremis coarctata* (R. & P.) Baker
 ✓17033 *Myrica pubescens* Willd.
 ✓17073 *Drymaria gracilis* C. & S.
 ✓17093 *Tropaeolum macrophyllum* Killip (type)
 ✓17123 *Myrica pubescens* Willd.
 ✓17170 *Orthrosanthus chimboracensis* (H. B. K.) Baker
 ✓17239 *Alnus ferruginea* H. B. K.
 ✓17265 *Urtica ballotaeifolia* Wedd.
 17387 *Arenaria lanuginosa* (Michx.) Rohrb.
 ✓17425 *Drymaria gracilis* C. & S.
 ✓17446 *Tradescantia multiflora* Sw.
 ✓17506 *Cerastium glutinosum* H. B. K.
 ✓17584 *Orthrosanthus chimboracensis* (H. B. K.) Baker
 ✓17685 *Cerastium glutinosum* H. B. K.
 ✓17817 *Brimys winteri* Forst.
 ✓17889 *Alnus ferruginea* H. B. K.
 ✓17928 " "
 ✓17934 *Escallonia myrtilloides* L. f.
 ✓17935 *Calandrinia caulescens* H. B. K.
 ✓17993 *Orthrosanthus chimboracensis* (H. B. K.) Baker
 ✓18112 *Tropaeolum maculifolium* Hughes
 ✓18267 *Quercus humboldtii* Bonpl.
 ✓18282 *Bocconia frutescens* L.
 ✓18289 *Eccremis coarctata* (R. & P.) Baker
 ✓18374 *Gaiadendron tagua* (H. B. K.) G. Don
 ✓18563 *Arenaria lanuginosa* (Michx.) Rohrb.
 ✓18621 *Tofieldia sessiliflora* Hook.
 ✓18719 *Urtica ballotaeifolia* Wedd.
 ✓18721 *Eccremis coarctata* (R. & P.) Baker
 ✓18777 *Tropaeolum digitatum* Karst.
 ✓18789 " *maculifolium* Hughes
 ✓18925 *Eccremis coarctata* (R. & P.) Baker
 ✓19078 *Quercus humboldtii* Bonpl.
 ✓19087 *Myrica pubescens* Willd.
 ✓19132 *Salix humboldtiana* Willd.
 ✓19343 *Hypoxis decumbens* L.
 ✓19479 *Ficus glabrata* H. B. K.
 ✓19615 *Alnus ferruginea* H. B. K.
 ✓19635 *Calandrinia caulescens* H. B. K.
 ✓19653 *Raphanus sativus* L.
 ✓19661 *Amaranthus hybridus* L.
 ◉19664 *Chenopodium murale* L.
 ✓19665 *Chenopodium ambrosioides* L.
 ✓19691 *Alnus ferruginea* H. B. K.
 ✓19724 *Tofieldia sessiliflora* Hook.
 ✓19726 *Gaiadendron tagua* (H. B. K.) G. Don
 ✓19745 " " "

- ✓19805 *Bocconia integrifolia* H. & B.
✓19897 *Drimys winteri* Forst.
✓20010 *Tropaeolum deckerianum* Moritz & Karst.
✓20186 *Myrica pubescens* Willd.
✓20200 *Chamissoa altissima* (Jacq.) H. B. K.
✓20218 *Tropaeolum wagenerianum* Karst.
✓20361 " " "
✓20496 *Salix humboldtiana* Willd.
✓20539 *Tropaeolum septangulum* Killip (type)
✓20561 *Gaiadendron tagua* (H. B. K.) G. Don
✓20603 *Tropaeolum dawei* Hughes
○✓20707 *Eccremis coarctata* (R. & P.) Baker
✓20727 *Urtica longispica* Killip (*U. ballotaeefolia macrostachya* Wedd.)
✓20744 *Chenopodium murale* L.
○✓20787 *Cyathula achyranthoides* (H. B. K.) Moq.
✓20878 *Aristolechia ringens* Vahl
✓20890 *Pfaffia iresinoides* (H. B. K.) Ktze.
○✓20969 *Chamissoa altissima* (Jacq.) H. B. K.
○✓21001 *Limnocharis flava* (L.) Buchenau
✓21013 *Chlorophora tinctoria* (L.) Gaud.
●✓21026 *Ficus palmicida* Pittier
✓21040 *Agave trankeera* Trel. (Det. L. H. Dewey)
✓21077 *Capparis flexuosa* L.
✓21083 " *verrucosa* Jacq.
○✓21114 *Drymaria gracilis* C. & S.
○✓21146 *Juncoides racemosum* (Desv.) Ktze.

KILLIP-SMITH, COLOMBIA

- ✓14101. *Cocos nucifera* L.
✓14291. *Sabal mauritiiformis* (Karst.) Gris. & Wendl.
✓14316. *Bactris major* Jacq.
✓14330. *Desmoncus horridus* Splittg. (ex char.)
✓14412. *Acanthorrhiza kalbreyeri* Danner
✓14421. *Bactris major* Jacq.
✓14452. *Elaeis malanococca* Gaertn.
✓14562. *Astrocaryum malybo* Karst.
✓14756. *Elaeis malanococca* Gaertn.
✓14808. *Oenocarpus mapora* Karst.
✓14809. *Astrocaryum malybo* Karst.
✓14845. *Oenocarpus mapora* Karst.
✓14866. *Geonoma paniculigera* Mart.
✓14896. *Socratea macrochlamys* Burret
✓14900. *Bactris sanctae-paulae* Engel
✓15314. *Calyptrogyne kalbreyeri* Burret
✓15323. *Bactris* sp. (sterile)
✓15325. *Euterpe* sp. (incomplete)
✓15336. *Geonoma pulchra* Engel
✓16001. *Phytelephas* (sterile)
✓16044. *Geonoma rhytidocarpa* Burret
✓16147. *Washingtonia filifera* N. Wendl.
✓16362. *Martinezia killipii* Burret (type)
✓17040. *Chamaedorea* sp.
✓18996. " "
✓19077. *Euterpe* sp. (sterile)
✓19266. *Morenia corallina* Karst.
✓19452. *Chamaedorea pinnatifrons* (Jacq.) Oerst.
✓19315. # sp. x
✓20413. " "
✓21070. *Cepernicia* sp. (sterile)

KILLIP-SMITH, COLOMBIA

- ✓14208. *Opuntia schumannii* Weber (Det. Rose)
 ✓14416. *Clavija latifolia* (Willd.) Radlk.
 ✓14565. *Opuntia schumannii* Weber (Det. Rose)
 ✓15020. *Eugenia jambos* L.
 ✓15074. *Vismia dealbata* H.B.K.
 ✓15298. *Begonia tovarensis* Kl.
 ✓15623. *Acaena elongata* L.
 ✓15866. *Ternstroemia andina* Wawra
 ✓16037. *Begonia urticae* L. f.
 ✓16181. *Mandevilla mollissima scabra* (R. & S.) Woods. (Det. Woodson)
 ✓16231. *Cephalocereus russelianus* (Otto) Rose
 ✓16285. *Epiphyllum phyllanthus* (L.) Haw.
 ✓16335. *Vismia dealbata* H.B.K.
 ✓16349. *Rhipsalis cassutha* Gaertn. (Det. Rose)
 ✓16378. *Opuntia schumannii* Weber (Det. Rose)
 ✓16398. *Epiphyllum hookeri* Haw.
 ✓16488. *Prockia septemnervia* Spreng.
 ✓16702. *Begonia microphylla* A. DC.
 ✓16761. " *foliosa* H.B.K.
 ✓16795. *Oxybaphus violaceus* (L.) Chois. (Det. Standley)
 ✓16805. *Begonia foliosa* H.B.K.
 ✓16855. *Oxybaphus violaceus* (L.) Chois. " "
 ✓17015. *B. foliosa* H.B.K.
 ✓17497. *Stachys repens* M. & G. (Det. Epling)
 ✓18031. *Acaena elongata* L.
 ✓18299. *Begonia foliosa* H.B.K.
 ✓18339. " *microphylla* A. DC.
 ✓18355. " " "
 ✓18902. *Ternstroemia andina* Wawra
 ✓18974. *Begonia urticae* L. f.
 ✓19017. " *foliosa* H.B.K.
 ✓19095. *Minthostachys mollis* Griseb. (Det. Epling)
 ✓19221. *Begonia foliosa* H.B.K.
 ✓19232. *Vismia dealbata* H.B.K.
 ✓19763. *Begonia foliosa* H.B.K.
 ✓19817. " " "
 ✓19819. " " "
 ✓20090. " *glabra* Aubl.
 ✓20552. " *foliosa* H.B.K.
 ✓20895. *Casearia hirsuta* Sw.
 ✓21005. *Opuntia schumannii* Weber (Det. Rose)
 ✓21027. *Cactus amoenus* Hoffm.
 ✓21053. *Opuntia wentiana* B. & R.
 ✓21069. *Lemaireacereus griseus* (Haw.) B. & R.
 ✓21159. *Begonia microphylla* A. Dc.
 ✓20456. *Begonia glabra* Aubl.

KILLIP-SMITH, Colombia.

(Det. E. Wimmer, Vienna)

- ✓15976. *Siphocamphylus tuberculatus carmesinus* Wimmer
✓20774. " *planchonis* Wimmer
✓20320. " *laevigatus* Planch.
✓20591. " "
✓17926. " *peritornus* Wimmer
✓17820. " *ricensis* Wimmer
✓17773. " " "
✓17704. " " "
✓17271. " " "
✓21142. " " "
✓17818. " " "
✓17849. " " "
✓16549. " *phyllobotrys leucanthus* Wimmer (type)
✓16545. " " Wimmer
✓15480. " " "
✓21164. " " "
✓16993. " " "
✓16610. " " "
✓15375. " " "
✓20717. *Centropogon flos-mutisii* Wimmer
✓20585. /" " "
✓20074. " *lutens bicolor* Wimmer (type)
✓19980. " *albertinus* Wimmer (type)

Det. E. P. Killip

- ✓20576. *Siphocamphylus laevigatus* Planch.
✓21195. " " "
✓16513. " *phyllobotrys* Wimmer
✓16779. " " "
✓21720. " *peritornus ricensis* Wimmer
✓17828. " " " "
✓19754. *Centropogon flos-mutisii* Wimmer

DETERMINATIONS FROM THE GRAY HERBARIUM

Killip & Smith

Plants of Colombia

1927

- 15032 *Cuphea callosa* Bacigalupi n. sp. Type
 15168 " *antisyphilitica* HBK.
 15542 " *columbiana* Bacigalupi n. sp.
 15620 *Alchemilla Purdiei* Perry
 " *vulcanica* Schlecht. & Cham.
 15667 *Plantago monticola* Decne., subsp. *angusta* Pilger
 16012 *Cuphea columbiana* Bacigalupi, n. sp.
 17134 " "
 17413 *Plantago monticola* Decne., subsp. *angusta* Pilger
 17465 " " "
 17512 *Alchemilla aphanoides* L. f., var. *tripartita* (R. & P.) Perry
 17570 *Plantago monticola* Decne., subsp. *angusta* Pilger
 17594 " " "
 17621 *Alchemilla galiooides* Benth.?
 17630 *Plantago linearis* Kunth., var. *eulinearis* Pilger
 17631 *Alchemilla Purdiei* affin.?
 " "
 " *vulcania* Schlecht. & Cham.
 17644 " *procumbens* Rose, var. *andina* Perry
 17853 " *aphanoides* L. f.
 18045 " " " var. *tripartita* (R. & P.) Perry
 18201 " " "
 " *procumbens* Rose., var. *andina* Perry
 18223 " *aphanoides* L. f.
 18276 *Cuphea columbiana* Bac., n. sp. Type
 18412 *Alchemilla procumbens* Rose, var. *andina* Perry
 18424 *Plantago monticola* Decne., subsp. *angusta* Pilger
 18438 *Alchemilla Purdiei* Perry
 " *procumbens* Rose, var. *andina* Perry
 18539 " *aphanoides* L. f.
 18553 *Plantago monticola* Decne., subsp. *angusta* Pilger
 18571 " *oreades* Dcne.
 18642 *Alchemilla hispidula* Perry
 18654 *Plantago linearis* Kunth, var. *agrostophylla* (Decne.) Pilger
 18738 *Alchemilla aphanoides* L. f.
 19117 *Alomia coelestina* (Regel) Robinson
 19750 *Alchemilla procumbens* Rose, var. *andina* Perry
 19757 *Cuphea dipetala* (L. f.) Koehne ^{fide} Bacigalupi
 20211 *Plantago hirtella* Kunth
 20485 *Cuphea dipetala* (L. f.) Koehne fide Bacigalupi
 21189 *Alchemilla* (indeterminate)

Florula Determined by Dr. Robinson

- Plantago* " " Dr. Pilger
Cuphea " " Mr. Bacigalupi
Alchemilla " " Miss Perry

KILLIP-SMITH, COLOMBIA

Identified at U. S. National Herbarium, May 12, 1931.

- ✓14010. *Fimbristylis spathacea* Roth
✓14098. " " "
✓14099. " *spadicea* (L.) Vahl
✓14102. *Cyperus ligularis* L.
✓14105. *Cyperus odoratus* L.
✓14117. *Jacquinia revoluta* Jacq.
✓14158. *Cyperus confertus* Sw.
✓14189. " *ferax* L. C. Rich.
In ✓14191. *Rauwolfia canescens* L.
✓14253. *Sicydium tannifolium* (H.B.K.) Cogn.
✓14323. *Funastrum glaucum* (H.B.K.) Schltr.
✓14434. *Cissampelos pereira* L.
✓14437. *Funastrum clausum* (Jacq.) Schltr.
✓14449. *Cyperus ligularis* L.
Qu ✓14451. *Capraria biflora hirta* Loes.
✓14458. *Cyperus ferax* L. C. Rich.
✓14461. " *luzulae* (L.) Retz
✓14463. *Fimbristylis spadicea* (L.) Vahl
✓14477. *Sicydium coriaceum* Cogn.
✓14496. *Cyperus panamensis* Britton
✓14566. *Cyperus compressus* L.
✓14605. " *surinamensis* Rottb.
✓14612. *Fimbristylis miliacea* (L.) Vahl
-14614. *Cyperus comosus* (Willd.) Poir.
✓14625. *Dichorisandra hexandra* (Aubl.) Kuntze (Det. Gleason)
Qu ✓14636. *Capraria biflora hirta* Loes.
✓14649. *Cyperus ferax* L. C. Rich.
✓14743. *Scleria microcarpa* Nees
✓14746. *Clavija engelsii* Mez
✓14766. *Cyperus ferax* L. C. Rich.
✓14772. " *luzulae* (L.) Retz
✓14783. " *diffusus* Vahl
✓14792. *Rynchospora corymbosa* (L.) Britton
✓14797. *Stenophyllum tenuifolius* (Rudge) Britton
✓14812. *Rynchospora cephalotes* (L.) Vahl
✓14821. *Nymphaea blanda fenzliana* Casp.
✓14829. *Cyperus cayannensis* (Lam.) Britton
✓14842. *Hypolytrum sylvaticum* Poepp. & Kth.
✓14844. *Calyptrocarpa glomerulata* (Brongn.) Urban
✓14878. *Diplazia karataefolia* L. C. Rich.
✓14884. *Vandellia diffusa* L.
✓14897. *Cyperus compressus* L.
✓14902. *Dichromena pubera* Vahl.
✓14915. *Cyperus haspan* L.
✓14937. *Funastrum clausum* (Jacq.) Schltr.

- ✓15022. *Rapanea ferruginea* (R. & P.) Mez
 ✓15031. *Syngonanthus caulescens* (Poir.) Ruhl.
 ✓15034. *Monocardia lilacina* Pennell
 ✓15051. *Rynchospora polyphylla* Vahl
 ✓15083. *Kyllinga pumila* Michx.
 ✓15091. *Cyperus cayennensis* (Lam.) Britton
 ✓15125. *Hydrocotyle umbellata* L.
 ✓15126. *Symbolanthus magnificus* Gilg
 ✓15133. " " "
 ✓15140. *Rynchospora globosa* (H.B.K.) R. & S.
 ✓15173. *Juncus microcephalus* H.B.K.
 ✓15175. *Fimbristylis autumnalis* (L.) R. & S.
 15194. *Scleria liebmanni* Steud.
 ✓15196. *Dichromena ciliata* Vahl
 ✓15229. *Stenophyllus paradoxus* (Spreng.) Standl.
 15235. *Stenophyllus junciformis* (H.B.K.) Britton
 ✓15237. *Rynchospora glauca* Vahl
 ✓15242. " " " (form) ?
 ✓15535. *Cyperus hermaphroditus* (Jacq.) Standl.
 ✓15540. *Leucocarpus perfoliatus* (H.B.K.) Benth.
 ✓15584. *Alonsoa meridionalis* (L. f.) Kuntze
 ✓15590. *Hydrocotyle bonplandii* Rich.
 ✓15629. *Gentiana nevadensis* Gilg
 ✓15670. *Oreomyrrhis andicola* Endl.
 ✓15671. *Lysipoma monticoides* H.B.K.
 ✓15891. *Grammadenia lehmannii* Mez
 ✓16005. *Cyperus melanostachys* H.B.K.
 ✓16015. *Gratiola bogotensis* Cortes
 ✓16023. *Hydrocotyle* (aff. *H. pamplonensis* Killip; sterile)
 ✓16038. Insect (destroyed)
 ✓16070. *Dichromena ciliata* Vahl
 ✓16110. *Duranta mutisii* L. f.
 ✓16133. *Lozanella enantiophylla* (Donn. Sm.) Killip & Morton
 ✓16170. *Syngonanthus magnificus* Gilg
 ✓16339. *Buchnera longifolia* Kunth
 ✓16373. *Cyperus olfersianus* Kunth
 ✓16547. *Stenophyllus capillaris* (L.) Britton? (or *S. tenuifolius*?)
 ✓16571. *Hydrocotyle bonplandii* Rich.
 ✓16579. *Sanicula liberta* C. & S.
 ✓16606. *Muhlenbeckia tiliaefolia* Wedd.
 ✓16641. *Uncinia hamata* (Sw.) Urban
 ✓16707. *Mimulus glabratus* H.B.K.
 ✓16710. *Hydrocotyle bonplandii* Rich.
 ✓16715. *Pelargonium radula* x *graveolens* DC. (Det. Knuth)
 ✓16716. *Pelargonium odoratissimum* (L.) Ait. (Det. Knuth)
 ✓16788. *Mimulus glabratus* H.B.K.
 ✓16863. *Cyperus hermaphroditus* (Jacq.) Standl.
 ✓16871. *Alonsoa meridionalis* (L. f.) Kuntze
 ✓16895. *Dichromena ciliata* Vahl

- ✓16932. *Hydrocotyle bonplandii* Rich.
 ✓17039. *Leucocarpus perfoliatus* (H.B.K.) Benth.
 o ✓17086. *Clavija longifolia* (Jacq.) Mez
 ✓17087. *Ardisia foetida* Willd.
 ✓17094. *Rynchospora polyphylla* Vahl
 ✓17106. *Leucocarpus perfoliatus* (H.B.K.) Benth.
 ✓17246. *Digitalis purpurea* L.
 ✓17364. *Digitalis purpurea* L.
 ✓17525. *Gentiana nevadensis* Gilg
 ✓17645. *Muhlenbeckia vulcanica* (Benth.) Endl.
 ✓17673. *Duchesnea indica* (Andr.) Focke
 ✓17677. *Mimulus glabratus* H.B.K.
 ✓17765. *Hydrocotyle bonplandii* Rich.
 ✓17786. *Alonsoa meridionalis* (L. f.) Kuntze
 o ✓17894. *Eryngium paniculatum* Cav.
 ✓17938. *Rapanea dependens* (R. & P.) Mez
 o ✓18034. *Daucus montanus* Willd.
 ✓18126. *Hydrocotyle bonplandii* Rich.
 ✓18131. *Mimulus glabratus* H.B.K.
 ✓18152. *Eryngium paniculatum* Cav.
 ✓18200. *Alonsoa meridionalis* (L. f.) Kuntze
 o ✓18228. *Potentilla heterosepala* Fritsch
 ✓18310. *Sagina procumbens* L.
 ✓18359. *Rapanea jelskii* (Zahlbr.) Mez
 ✓18406. *Carex polystachya* Sw.? (barren)
 ✓18513. *Hydrocotyle bonplandii* Rich.
 ✓18519. *Hydrocotyle bonplandii* Rich.
 o ✓18552. Perhaps Cyperaceae (not worth saving)
 ✓18640. *Eryngium paniculatum* Cav.
 ✓18696. *Uncinia hamata* (Sw.) Urban? (barren)
 ✓18754. *Alonsoa meridionalis* (L. f.) Kuntze
 ✓18853. *Hydrocotyle bonplandii* Rich.
 ✓18859. *Leucocarpus perfoliatus* (H.B.K.) Benth.
 e ✓18895. *Papaveranthus schlimii* Koern.
 ✓18957. *Castilleja communis* Benth.
 ✓19027. *Hydrocotyle bonplandii* Rich.
 ✓19033. *Rynchospora aristata* Boeckl.
 ✓19036. *Clavija longifolia* (Jacq.) Mez
 o ✓19059. *Triplaris caracasana* Cham.
 ✓19113. *Clavija longifolia* (Jacq.) Mez
 o ✓19124. *Spananthe paniculata* Jacq.
 ✓19239. *Castilleja communis* Benth.
 ✓19366. *Spananthe paniculata* Jacq.
 ✓19488. *Alonsoa meridionalis* (L. f.) Kuntze
 ✓19510. *Daucus montanus* Willd.
 o ✓19512. *Cyclospermum leptophyllum* (Pers.) Sprague (*Apium ammi* (Jacq.) Urb.)
 ✓19628. *Salvia killipiana* Epl. (s.t. Epling)
 ✓19641. *Conium maculatum* L.
 ✓19657. *Fuchsia hybrida* Voss. (form)

19698. *Juncus tenuis* Willd. *new record*
- ✓19818. *Macrocarpaea polyantha* Gilg
- ✓19862. *Rynchospora aristata* Boeckl.
- ✓19892. *Gratiola bogotensis* Cortes
- ✓20004. *Hydrocotyle pamplonensis* Killip, ined. (type)
- ✓20185. *Alonsoa meridionalis* (L.f.) Kuntze
- ✓20193. *Styrax micrasterus* Perk.
- ✓20266. *Kyllinga pumila* Michx.
- ✓20348. *Cyperus hermaphroditus* (Jacq.) Standl.
- ✓20352. *Leucocarpus perfoliatus* (H.B.K.) Benth.
- ✓20380. *Styrax micrasterus* Perk.
- ✓20446. *Schnicula liberta* C. & S.
- ✓20512. *Carex polystachya* Sw.
- ✓20613. *Macrocarpaea polyantha* Gilg
- ✓20652. *Hydrocotyle bonplandii* Rich.
- ✓20768. *Spananthe paniculata* Jacq.
- ✓20930. *Cyperus olfersianus* Kunth
- ✓20933. *Stemodia durantifolia* Sw.
- ✓20999. *Funastrum glaucum* (H.B.K.) Schltr.
- ✓21080. *Capparis nemorosa* Jacq.
- ✓21082. *Capparis tenuisiliqua* Jacq.
- ✓21100. *Beloperone sanmartensis* Rusby (Det. Leonard)
- ✓21101. *Jacquinia gracilis* Mez
- ✓21105. *Funastrum ovalifolium* (Rusby) Killip
- ✓21111. " *glaucum* (H.B.K.) Schltr.
- ✓21121. *Cyclospermum leptophyllum* (Pers.) Sprague (*Apium ammi* (Jacq.) Urb.)
- ✓21176. *Rapanea dependens* (R. & P.) Mez
21204. *Digitalis purpurea* L.
21209. *Mentha?* (Det. Epling) A barren "remedio" plant.
21215. *Hydrocotyle bonplandii* Rich.
21224. *Styrax micrasterus* Perk.

- ✓15049. *Psammisia penduliflora* (Dun.) Kl.
 ✓15108. " "
 ✓15124. *Cavendishia killipii* A.C.Smith (type)
 ✓15465. *Cavendishia pubescens* (HBK.) Hemsl.
 ✓15722. *Macleania nitida* (HBK.) Hoer.
 ✓15794. *Themistoclesia vegasana* A.C.Smith (type)
 ✓15803. *Cavendishia scabriuscula* (HBK.) Hoer.
 ✓15806. *Macleania nitida* (HBK.) Hoer.
 ✓15820. *Thibaudia floribunda* HBK.
 ✓15871. *Cavendishia gracilis* A.C.Smith (type)
 ✓15880. *Themistoclesia vegasana* A.C.Smith
 ✓15918. *Cavendishia pubescens* (HBK.) Hemsl.
 ✓15978. *Cavendishia splendens* (Kl.) Hoer.
 ✓15980. " "
 ✓15987. *Orthaea cavendishoides* A.C.Smith (type).
 ✓15997. *Cavendishia gracilis* A.C.Smith
 ✓16090. *Cavendishia splendens* (HBK.) (Kl.) Hoer.
 ✓16100. *Cavendishia scabriuscula* (HBK.) Hoer.
 ✓16621. *Psammisia penduliflora* (Dun.) Kl.
 ✓16764. *Cavendishia splendens* (Kl.) Hoer.
 ✓16777. *Psammisia penduliflora* (Dun.) Kl.
 ✓17174. *Psammisia falcata* (HBK.) Kl.
 ✓17280. *Macleania nitida* (HBK.) Hoer.
 ✓17281. " "
 ✓17336. " "
 ✓17586. " "
 ✓17698. " "
 ✓17744. " "
 ✓17857. *Cavendishia scabriuscula* (HBK.) Hoer.
 ✓17873. *Psammisia penduliflora* (Dun.) Kl.
 ✓17994. *Macleania nitida* (HBK.) Hoer.
 ✓18013. *Psammisia penduliflora* (Dun.) Kl.
 ✓18087. *Thibaudia floribunda* HBK.
 ✓18222. *Macleania nitida* (HBK.) Hoer.
 ✓18370. *Psammisia falcata* (HBK.) Kl.
 ✓18606. *Macleania nitida* (HBK.) Hoer.
 ✓18784. *Cavendishia scabriuscula* (HBK.) Hoer.
 ✓18791. *Thibaudia floribunda* HBK.
 ✓18794. *Psammisia falcata* (HBK.) Kl.
 ✓18868. *Psammisia penduliflora* (Dun.) Kl.
 ✓18872. " "
 ✓18875. *Cavendishia cordifolia* (HBK.) Hoer.
 ✓18883. *Cavendishia pubescens* (HBK.) Hemsl.
 ✓18888. *Cavendishia scabriuscula* (HBK.) Hoer.
 ✓18950. *Cavendishia splendens* (Kl.) Hoer.
 ✓19039. *Cavendishia pubescens* (HBK.) Hemsl.
 ✓19091. " "
 ✓19099. *Psammisia penduliflora* (Dun.) Kl.
 ✓19308. *Cavendishia pubescens* (HBK.) Hemsl.
 ✓19312. *Cavendishia scabriuscula* (HBK.) Hoer.
 ✓19435. *Cavendishia pubescens* (HBK.) Hemsl.
 ✓19460. " "
 ✓19631. *Macleania nitida* (HBK.) Hoer.
 ✓19738.

Killip & Smith (2)

- ✓19781. *Cavendishia scabriuscula* (HBK.) Hoer.
✓19914. *Macleania nitida* (HBK.) Hoer.
✓19936. *Themistoclesia hirsuta* A.C.Smith (type)
✓20051. *Psammisia penduliflora* (Dun.) Kl.
✓20055. *Cavendishia pubescens* (HBK.) Hemsl.
✓20108. *Psammisia penduliflora* (Dun.) Kl.
✓20481. " "
✓20587. " "
✓20588. *Cavendishia splendens* (HBK.) Hoer.
✓20674. " "
✓20676. " "
✓20731. *Cavendishia scabriuscula* (HBK.) Hoer.
✓21172. *Macleania nitida* (HBK.) Hoer.
o 21218. *Cavendishia cordifolia* (HBK.) Hoer.

Recd. this week 1/28/32 G

KILLIP-SMITH, COLOMBIA

- ✓14020. Hippocratea celastroides H.B.K.
✓14116. " " "
✓14127. Pedilanthus tithymaloides (L.) Poit.
✓14207. Gouania tomentosa Jacq.
✓14335. Iuehea candida (DC.) Mart.
✓14373. Tournefortia angustiflora R. & P.
✓14374. Paullinia macrophylla H.B.K.
✓14626. Phaseolus caracalla L.
✓14668. Tournefortia angustiflora R. & P.
✓14680. Combretum laxum Jacq. (Det. Exell)
✓14753. Phaseolus peduncularis H.B.K.
✓14776. Centrosema virginicum (L.) Benth.
✓14795. Teramnus volubilis Sw.
✓14817. Gouania tomentosa Jacq.
✓14944. Tournefortia angustiflora R. & P.
✓14949. " obscura DC.
✓15045. Eleocharis sulcata Nees
✓15130. Escobedia grandiflora (L. f.) Pennell (Det. Pennell)
✓15367. Alchornea grandiflora Muell. Arg.
✓15388. Triumfetta semitriloba L.
✓15420. Croton leptostachyus Muell. Arg.
✓15447. Bombax carabobense Pittier
✓15501. Desmodium campylocladum (Hemsl.)
✓15735. Buddleia mollis H.B.K.
✓15963. Carludovica plicata Kl.
✓16193. Croton leptostachyus Muell. Arg.
✓16225. Croton leptostachyus Muell. Arg.
✓16226. Sida cordifolia L.
✓16307. Melochia venosa Sw.
✓16331. Bombax carabobense Pittier
✓16389. Tournefortia volubilis L.
✓16792. Vigna vexillata (L.) A. Rich.
✓17029. Tournefortia scabrida H.B.K.
✓17035. Eleocharis nodulosa Schultes
✓17142. Desmodium molliculum (H.B.K.) DC.
✓17163. Tournefortia fuliginosa H.B.K.
✓17210. Escobedia parvifolia Pennell (type)
✓17309. Buddleia mollis angustifolia Benth.
✓17904. Tournefortia fuliginosa H.B.K.
✓17909. " " "
✓18520. Eleocharis stenocarpa Svenson? (achenes too young).
✓19012. Tournefortia scabrida H.B.K.
✓19054 19054 " volubilis L.
✓19058. Urvillea ulmacea H.B.K.
✓19135. Tournefortia scabrida H.B.K.
✓19201. Pilea mutisiana (Spreng.) Wedd.
✓19233. Phaseolus hirsutus Mart.
✓19238. Tournefortia scabrida H.B.K.
✓19347. Escobedia grandiflora (L. f.) Pennell (Det. Pennell)
✓19366. Cirtus medica L.

Jan. 1932

Killip-Smith, Colombia--2

- ✓ 19517. *Croton speciosus* Muell. Arg.
✓ 19484. *Tournefortia scabrida* H.B.K.
✓ 19493. " " "
✓ 19502. *Delostoma roseum* (Karst. & Tr.) K. Sch.
✓ 19765. *Dodonaea viscosa* L.
✓ 19773. *Rhamnus humboldtianus* R. & S.
? ✓ 19859. *Carludovica plicata* Kl.
✓ 19874. *Tournefortia fuliginosa* H.B.K.
✓ 20023. " *scabrida* H.B.K.
✓ 20138. " " ✓
✓ 20181. " " "
✓ 20286. " " "
✓ 20471. " " "
✓ 20679. *Rhamnus humboldtianus* R. & S.
✓ o 20848. *Desmodium uncinatum* (Jacq.) DC.
✓ 20893. *Gouania tomentosa* Jacq.
✓ 20902. *Tournefortia hirsutissima* L.
✓ 20913. " *volubilis* L.
✓ 20959. " *peruviana* Poir.
✓ 21037. *Croton flavens* L.
✓ 21049. " " "
✓ o 21109. *Desmodium uncinatum* (Jacq.) DC.
✓ o 21140. " *cajanifolium* (H.B.K.) DC.

Recd. Nov. 26, 1932 G

MALPICHIACEAE, Det C. V. Morton.

Killip & Smith, Colombia.

- ✓ 14524. *Tetrapterys discolor* (G. F. W. Mey.) DC.
✓ 14669. " *seemannii* Tr. & Pl. (not *T. papyracea* Tr. & Pl.)
✓ 16453. *Gaudichaudia albida* C. & S.
✓ 19019. *Tetrapterys killipii* Morton sp. nov. (type)
✓ 19824. *Hiraea colombiana* Morton sp. nov.
✓ 20474. " " " " " (type)

KILLIP-SWITZ, COLOMBIA

Compositae, det. S. F. Blake; Solanaceae, C. V. Morton; Acanthaceae,
E. C. Leonard; others by E. P. Killip unless otherwise noted.
Comparisons made in Europe by E. P. Killip, 1932.

U. S. National Museum, August, 1932.

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- ✓14124. *Serjania columbiana* Radlk.
 - ✓14201. " " "
 - ✓14210. " " "
 - ✓14225. *Wissadula periplocifolia* Presl (form; comp. at Berlin)
 - ✓14254. *Carica papaya* L.
 - ✓14264. *Serjania columbiana* Radlk.
 - ✓14310. *Aphelandra pulcherrima* (Jacq.) H. B. K.
 - ✓14324. *Serjania paniculata* H. B. K.
 - ✓14401. *Gynerium sagittatum* (Aubl.) Beauv. (Det. Chase)
 - ✓14402. *Carludovica palmata* R. & P.
 - ✓14439. *Serjania paniculata* H. B. K.
 - †14457. *Cyperus ochraceus* Vahl (Det. Gross)
 - ✓14514. *Serjania columbiana* Radlk.
 - ✓14516. *Aphelandra pulcherrima* (Jacq.) H. B. K.
 - ✓14548. *Solanum scabrum* Vahl
 - ✓14613. *Nymphaea amazonum* Mart. & Zucc. 14637
 - ✓14637. *Serjania paniculata* H. B. K.
 - ✓14701. *Solanum scabrum* Vahl
 - ✓14769. " " "
 - ✓14779. *Megaskepasma erythrochlamys* Lindau
 - ✓14790. *Melochia corchorifolia* L. (form)
 - ✓14869. *Cyclanthus bipartitus* Poit.
 - ✓14902. *Dichromena pubera* Vahl (form) Det. Gross
 - ✓14948. *Melochia benthami* K. Sch. (Comp. At Paris)
 - ✓15021. *Rubus floribundus* H. B. K. (Comp. with type in Humboldt Herb.,
Paris)
 - ✓15075. *Jussiaea peruviana* glaberrima Donn. Smith
 - ✓15114. *Solanum sisymbriifolium* Lam.
 - ✓15156. *Jussiaea lithospermifolia* (Kunth) Micheli (Approaching *J. nervosa*;
comp. at Berlin)
 - ✓15179. *Turnera ulmifolia* serissima Killip (type)
 - ✓15259. *Solanum quinqueangulare* W. J. Hook.
 - ✓15283. *Croton palanostigma* Kl. (form)
 - ✓15401. " *dolichocephalus* Pittier
 - ✓15438. *Serjania rhombea* Radlk.
 - ✓15479. *Antidaphne colombiana* Killip
 - ✓15514. *Boehmeria caudata* Sw.
 - ✓15518. *Heliocarpus popayanensis* H. B. K.
 - ✓15567. *Rubus porphyromallus* Focke
 - ✓15577. *Rubus bogotensis* H. B. K.
 - ✓15626. *Paepalanthus dendroides* (H. B. K.) Kunth (Comp. with type at Berlin)
 - ✓15628. *Arenaria serpens* H. B. K.

Killip-Smith

- ✓15717. *Rubus bogotensis* H. B. K.
 ✓15735. *Buddleia bullata* H. B. K. (Corr.)
 ✓15831. *Ermellia propinqua* H. B. K. (Comp. with type at Paris)
 ✓15849. " " " " " " "
 ✓15865. *Palicourea caloneura* Rusby (Det. Standley)
 ✓16005. *Cyperus melanostachys* H. B. K. (Reported?)
 ✓16006. *Rynchospora kunthii* Nees (Det. Gross)
 ✓16064. *Paepalanthus pilosus* (H. B. K.) Kunth (Comp. with type at Berlin)
 ✓16085. *Saurauja strigillosa* Tr. & Pl. (Comp. with type at Paris)
 ✓16103. *Rubus floribundus* H. B. K.
 ✓16138. *Aphelandra funcinata* Kl.
 ✓16172. *Turnera ulmifolia* L. (form)
 ✓16179. *Serjania rhombica* Radlk.
 ✓16185. *Urvillea ulmacea* H. B. K.
 ✓16197. *Hemistylis macrostachya* Wedd. (Comp. with type at Paris)
 ✓16226. *Melochia caraceana* ^{and} Jacq. (Correction)
 ✓16227. *Urvillea ulmacea* H. B. K.
 ✓16251. *Waltheria subcordata* Standl.
 ✓16266. *Jussiaea peruviana glaberrima* Donn. Smith
 ✓16270. *Hemistylis macrostachya* Wedd.
 ✓16283. *Aphelandra tetragona* (Vahl) Nees
 ✓16319. *Pthirusa pyrifolia* (H. B. K.) Eichl.
 ✓16355. *Barleria micans* Nees
 ✓16427. *Buddleia spicata* R. & P. (Comp. with type at Berlin)
 ✓16472. *Jussiaea peruviana glaberrima* Donn. Smith
 ✓16474. *Euphorbia cotinifolia* L. (form)
 ✓16499. *Mauria ovalifolia* Turcz.
 ✓16506. *Buddleia spicata* R. & P.
 ✓16596. *Saurauja pycnotricha* Turcz. (Comp. at Paris by K. C. Smith)
 ✓16601. *Mauria ovalifolia* Turcz.
 ✓16612. *Rubus floribundus* H. B. K.
 ✓16618. " *adenotrichus* Schlecht X ?
 ✓16640. *Carludovica moritziana* Kl. (Comp. with type coll. at Brit. Mus.)
 ✓16712. *Apium graveolens* L. (Det. Mathias)
 ✓16721. *Rubus glaucus* Benth.
 ✓16728. *Rubus porphyromallus* Focke
 ✓16778. *Rubus floribundus* H. B. K.
 ✓16789. *Croton pungens* Jacq.?
 ✓16813. *Mauria ovalifolia* Turcz. (approaching *M. beiringo* var. *granatensis* Engl.)
 ✓16823. *Hemistylis velutina* Wedd. (Comp. with type at Paris)
 ✓16843. *Croton pungens* Jacq.
 ✓16865. *Mauria ovalifolia* Turcz.
 ✓16934. *Solanum scorpoideum* Rusby
 ✓16960. *Rubus floribundus* H. B. K.
 ✓16963. *Rubus glaucus* Benth.
 ✓17030. *Croton pungens* Jacq.
 ✓17099. *Spigelia pedunculata* H. B. K. (Corr.; comp. at Berlin)
 ✓17145. *Gaiadendron tagua* (H. B. K.) G. Don
 ✓17147. *Rubus floribundus* H. B. K.
 ✓17309. *Buddleia lindenii* Benth. (Corr.)
 ✓17317. *Rubus bogotensis* H. B. K. (Comp. with type in Humboldt Herb., Paris)
 ✓17581. *Rubus acanthophyllus* Focke (Comp. at Paris and Kew)
 ✓17628. *Hesperomeles ferruginea* (Pers.) Benth.

Killip-Smith

- ✓17723. *Hesperomeles ferruginea* (Pers.) Benth. (Comp. at Paris)
✓17780. *Rubus bogotensis* H. B. K.
✓17845. *Buddleia lindenii* Benth.
✓17862. *Rubus nubigenus* H. B. K. (Comp. with type in Humboldt Herb., Paris)
✓17895. " *bogotensis* H. B. K. (Comp. with type " " " ")
✓17907. " *floribundus* H. B. K. (" " " " " ")
✓17924. *Hesperomeles obtusifolia* Lindl.
✓17969. *Rubus bogotensis* H. B. K.
✓18039. *Gaiadendron tagua* (H. B. K.) G. Don
✓18055. *Brunellia subintegra* Killip (type)
✓18063. *Hesperomeles nitida* Killip (type)
✓18202. *Rubus bogotensis* H. B. K.
✓18254. *Stellaria media* L.
✓18270. *Urtica ballotaeifolia* Wedd.
✓18319. " " " (Comp. with type at Paris)
✓18322. *Saurauja excelsa xanthochicha* Turcz. (Comp. at Berlin)
✓18323. *Rubus bogotensis* H. B. K.
✓18325. *Serjania caracasana puberula* Radlk. (Comp. at Berlin)
✓18343. *Buddleia spicata* R. & P.
✓18384. *Hesperomeles ferruginea* (Pers.) Benth.
✓18470. *Polylepis hypoleuca* Wedd., (sterile; agrees well with Steubel 115
at Berlin)
✓18522. *Rubus acanthophyllus* Focke
✓18632. *Hesperomeles pernettyoides* Wedd. (Comp. with type at Paris)
✓18677. *Rubus acanthophyllus* Focke
✓18715. " *bogotensis* H. B. K. (Comp. with type in Humboldt. Herb., Paris)
✓18874. *Mauria ovalifolia* Turcz. (typical; compared at Berlin)
✓18882. *Antidaphne colombiana* Killip (type)
✓18897. *Mauria ovalifolia* Turcz. (approaching *M. heterophylla*; comp. at Berlin)
✓18916. *Gurania* (perhaps near *G. diffusa* Cogn.; sterile)
✓18928. *Rubus floribundus* H. B. K.
✓19024. *Saurauja excelsa* Willd. (Comp. at Kew)
✓19033. *Rynchospora macrochaeta* Steud. (Det. Gross)
✓19094. *Buddleia spicata* R. & P.
✓19103. *Saurauja humboldtiana* Busc. (Comp. at Kew by A. C. Smith)
✓19110. *Solanum quinquangulare* W.
✓19158. *Carludovica moritziana* Kl. (Comp. at Brit. Mus.)
✓19208. *Solanum scorpoideum* Rusby
✓19223. *Mauria ovalifolia* Turcz.
✓19267. *Aphelandra runcinata* Kl.
✓19319. *Saurauja ursina* Tr. & Pl. (Comp. at Paris by A. C. Smith)
✓19322. *Ptychomeria suaveolens* (Karst.) Schlechtr.
✓19369. *Carludovica utilis* (Oerst.) B. & H.
✓19399. *Triunfetta grandiflora* Vahl
✓19421. *Mauria ovalifolia* Turcz.
✓19427. *Euphorbia insulana* Vell. (Comp. at Berlin)
✓19480. *Saurauja humboldtiana* Busc. (Comp. at Kew by A. C. Smith)
✓19503. *Buddleia spicata* R. & P.
✓19513. *Mauria ovalifolia* Turcz.
✓19572. *Buddleia bullata* R. & P. (Corr.)
✓19577. *Rubus acanthophyllus* Focke
✓19584. *Arenaria serpens* H. B. K.
✓19595. *Rubus bogotensis eglandulosis* Killip (type)
✓19611. *Urtica ballotaeifolia* Wedd.

Killip-Smith

- ✓19675. *Urtica urens* L.
✓19677. " *ballotaefolia* Wedd.
✓19682. *Solanum scorpoideum* Rusby
✓19740. *Hesperomeles obtusifolia* Lindl.
✓19759. *Hesperomeles glabrata* (H. B. K.) Roem.
✓19769. *Croton pungens* Jacq.?
✓19776. *Mauria ovalifolia* Turcz. (Approaching *M. heterophylla*; comp. at Berlin)
✓19787. *Prunus capuli* Cav.
✓19788. *Hesperomeles obtusifolia* Lindl.
✓19790. *Antidaphne colombiana* Killip
✓19899. *Gaiadendron tagua* (H. B. K.) G. Don
✓19904. *Rubus bogotensis* H. B. K.
✓19987. *Rubus glaucus* Benth.
✓20034. *Hilleria latifolia* (Lam.) H. Walt.
o 20073. *Rubus floribundus* H. B. K?
✓20480. " " " (Comp. with type in Humboldt Herb., Paris)
✓20521. " " "
✓20559. *Mauria puberula* Trel.
✓20580. *Antidaphne colombiana* Killip
✓20586. *Rubus bogotensis* H. B. K.
✓20594. *Brunellia propinqua* H. B. K. (Comp. with type at Paris)
✓20618. *Begonia ferruginea* H. B. K.
✓20654. *Arenaria musciformis* Tr. & Pl. (Comp. at Paris)
✓20898. *Paullinia fuscescens* H. B. K.
✓20905. *Buddleia spicata* R. & P.
✓20929. *Spirochaeta funckii* Turcz.
✓20931. *Aphelandra pulcherrima* (Jacq.) H. B. K.
✓21024. *Urvillea ulmacea* H. B. K.

Killip-Smith (Colombia)

- ✓14370. *Mesechites trifida* (Jacq.) Muell. Arg.
✓14619. *Cryptostegia grandiflora* (Roxb.) R. Br.
→ Tabernanmontana psychotriaefolia H.B.K.
✓14653.
✓14678. *Anechites lappulacea* (Lam.) Miers
✓14980. *Mandevilla subsagittata* (R. & P.) Woodson
✓15315. *Rauwolfia moricandii* A. DC.
✓15392. " "
✓15469. *Mandevilla mollissima* fendleri (Muell.Arg.) Woodson
✓16161. " " "
✓17054. " " "
✓18012. " " "
✓20533. *Marsdenia* (fruit only)
✓20748. *Exolobus marmoreus* Woodson (type)

- Killip & Smith 14493✓ *H. suaveolens* Poit.
14583✓ *H. brevipes* Poit.
14858✓ *H. atrorubens* Poit. *Det. by C. Epling*
✓15007. *H. brachiata* Briq.
✓15386. *H. atrorubens* Poit.
✓19458. *H. columbiana* Epl.

Killip & Smith, Colombia.

Cyperaceae, Mimosaceae, and Caesalpiniaceae by Britton & Killip; Espeletia, Ericaceae, and Vacciniaceae by A. C. Smith; Verbenaceae by H. N. Moldenke.

U. S. National Museum, September 1933.

- X
- ✓14291. *Trithrinax mauritiiformis* Karst. (correction by Burret)
 - ✓14487. *Eunelia panamensis* Standl. (det. Killip)
 - ✓14496. *Cyperus glabulosus* Aubl. (correction)
 - ✓14782. *Chamaefistula fluviatilis* Britton & Killip (type; correction)
 - ✓14792. *Rynchospora corymbosa* (L.) Britton (det. Gross)
 - ✓15175. *Fimbristylis complanata* (Retz) Link (correction)
 - ✓15405. *Chamaefistula macrophylla* (Kunth) G. Don? (no flowers)
 - ✓15413. *Lantana fucata* Lindl.
 - ✓15475. " *camara mista* (L.) Bailey
 - ✓15535. *Cyperus hermaphroditus* (Jacq.) Standl.
 - ✓15684. *Espeletia funckii* Sch. Bip.
 - ✓15945. *Disterigma elassanthum* Blake
 - ✓16101. *Adipera santanderensis* Britton
 - ✓16373. *Cyperus densus* Link (correction)
 - ✓16399. *Lantana canescens* H. B. K.
 - ✓16863. *Cyperus hermaphroditus* (Jacq.) Standl.
 - ✓16886. *Adipera santanderensis* Britton
 - ✓17340. *Verbena brasiliensis* Vell.
 - ✓17422. *Espeletia santanderensis* A. C. Smith (type)
 - ✓17560. " *conglomerata* A. C. Smith
 - ✓17587. " *santanderensis* A. C. Smith
 - ✓17603. " " "
 - ✓17612. *Gaultheria santanderensis* A. C. Smith
 - ✓17622. *Espeletia santanderensis* A. C. Smith
 - ✓17667. " " "
 - ✓18206. " *funckii* Sch. Bip.
 - ✓18397. *Adipera santanderensis* Britton
 - ✓18425. *Espeletia funckii* Sch. Bip.
 - ✓18444. *Disterigma empetrifolium* (H. B. K.) Drude
 - ✓18422. *Azorella multifida* (R. & P.) Pers. (det. Mathias)
 - ✓18453. *Gaultheria santanderensis* A. C. Smith
 - ✓18601. *Pernettya pentlandii parvifolia* (Benth.) Wedd.
 - ✓18425. *Espeletia funckii* Sch. Bip.
 - ✓18619. " " " "
 - ✓18624. " *canescens* A. C. Smith (type)
 - ✓18635. " *conglomerata* A. C. Smith (type)
 - ✓18685. *Disterigma empetrifolium* (H. B. K.) Drude
 - ✓19064. *Enterolobium cyclocarpum* (Jacq.) Griseb.
 - ✓19067. *Petraea bracteata* Steud.
 - ✓19224. *Adipera santanderensis* Britton
 - ✓19447. *Chamaefistula bacillaris* (L. f.) G. Don (correction)
 - ✓19518. *Adipera santanderensis* Britton
 - ✓19552. *Espeletia santanderensis* A. C. Smith

Killip & Smith, Colombia-2

- ✓19558. *Espeletia standleyana* A. C. Smith (type)
- ✓19616. *Gaultheria santanderensis* A. C. Smith
- ✓ 20135. *Inga punctata* Willd. (correction)
- ✓ 20163. *Anthurium scandens* (Aubl.) Engl. (det. Krause)
- ✓ 20348. *Cyperus hermaphroditus* (Jacq.) Standl.
- ✓ 20495. *Adipera santanderensis* Britton
- ✓ 20502. *Lantana fucata* Lindl.
- ✓ 20505. *Inga punctata* Willd. (correction)
- ✓ 20611. *Espeletia canescens* A. C. Smith
- ✓ 20841. *Cyperus cayennensis* (Lam.) Britton
- ✓ 20930. *Cyperus densus* Link (correction)
- ✓ 20937. *Brownea arvensis* Pittier
- ✓ 21042. *Pithecellobium unguis-cati* (L.) Mart.
- ✓ 21059. *Lantana rugulosa* H. B. K.
- ✓ 21065. *Lantana purpurea* Hornem.?
- ✓ 21091. *Vitex cymosa* Bert.
- ✓ 21099. " " "

Killip-Smith, Colombia.

Acanthaceae determined by E. C. Leonard; Malpighiaceae by C. V. Morton;
Visnia, Clusia, and Ternstroemia by A. C. Smith; others by F. P. Killip
unless otherwise noted.

S. National Museum, December 1934.

- ✓14133. *Galactia striata* (Jacq.) Urban
- ✓14163. *Cestrum latifolium* Lam. (Det. Morton)
- ✓14165. " " " "
- ✓14182. *Benthamantha caribaea* (Jacq.) Kuntze, var.
- ✓14212. *Ruellia obtusa* Nees
- ✓14250. *Desmodium canum* (Gmel.) Schinz & Thell.
- ✓14257. *Erythrina rubrinervia* H.B.K. ? (no flowers)
- ✓14304. *Monstera dilacerata* C. Koch
- ✓14285. *Bunchosia glauca* H.B.K.
- ✓14325. *Banisteriopsis argentea* (H.B.K.) C. B. Rob.
- ✓14515. *Cestrum latifolium* Lam. (Det. Morton)
- ✓14521. *Galactia striata* (Jacq.) Urban
- ✓14561. *Benthamantha caribaea* (Jacq.) Kuntze, var.
- ✓14591. *Pistia stratiotes* L. (Det. A. C. Smith) no. from Dan. Herbar. 22337
- ✓14641. *Desmodium scorpiurus* (Sw.) Desv.?
- ✓14689. *Bunchosia glauca* H.B.K.
- ✓14712. *Benthamantha caribaea* (Jacq.) Kuntze, var.
- ✓14735. *Calathea lutea* (Aubl.) May.
- ✓14761. *Tetracera sessiliflora* Tr. & Pl.
- ✓14763. *Renealmia cernua* (Sw.) Macbr. (R. strobilifera P. & E.)
- ✓14827. *Desmodium adscendens* (Sw.) DC. (correction)
- ✓14852. 14890. *Visnia lauriformis* (Lam.) Choisy
- ✓14892. *Cecropia goudotiana* Tréc? (immature)
- ✓14931. *Costus villosissimus* Jacq.? (U. S. Specimen poor)
- ✓14988. *Phoradendron piperoides* (H.B.K.) Trel.
- ✓15010. *Cecropia scabrifolia* A. Richter (det. Mildbraed)
- ✓15099. *Clusia multiflora* H.B.K.
- ✓15225. *Eurya* (*Freziera*) *danrai* (Urb.) Melch. vel aff. (det. Melchior)
- ✓15354. *Clusia rosea* L.
- ✓15389. *Stromanthe tonkat* (Aubl.) Eichl.
- ✓15400. *Desmodium intortum* (Mill.) Fawc. & Rendle
- ✓15430. 20053, 20123. *Clusia eugenioides* Pl. & Lind.
- ✓15451. *Sterculia apetala* (Jacq.) Karst.?
- ✓15469. 16161, 17054, 18012. *Mandevilla fendleri* (M. A.) Woods.
(Rather than var. of mollissima)
- ✓15510. *Erythrina rubrinervia* H.B.K.
- ✓15521. *Dolichos lablab* L.
- ✓15866. *Ternstroemia clusiaefolia* H.B.K.
- ✓15872. *Dendrophthora lindeniana* V. Tiegh
- ✓16016, 19753, 19893. *Sisyrinchium bogotense* H.B.K.
- ✓16121. *Perrottetia quindicensis* H.B.K.
- ✓16181. *Mandevilla scabra* (R. & S.) K. Sch. (not M. mollissima scabra)
cited by Woodson
- ✓16253. *Dioclea guianensis* Benth.
- ✓16301. *Chaetocalyx hebecarpa* Benth.
- ✓16330. *Arrabidaea magnifica* Sprague

Killip-Smith, Colombia -

- ✓16346. *Oxypetalum cordifolium* (Vent.) Schltr.
✓16367. *Benthamantha caribaea* (Jacq.) Kuntze, var.
✓16396. *Phoradendron killipii* Trel.
✓16420. *Clusia rosea* L.
✓16479. *Phaseolus adenanthus* Mey.
✓16622. *Erythrina rubrinervia* H.B.K.
✓16768. *Panopsis suaveolens* (Kl.) Pittier
✓16827. *Phaseolus adenanthus* May.
✓16868. *Desmodium intortum* (Mill.) Fawc. & Rendle
✓16968. *Carex polystachya* Wohl. (Det. Mackenzie)
✓17002. *Phoradendron suratanum* Trel.
✓17061. *Desmodium campylloclados* Hemsl.
✓17063. *Anthurium nitidum* Kunth
✓17065. " *deflexum* Engl.
✓17104, 17122. *Phytolacca rugosa* A. Br. & Bouché (Det. P. Wilson)
✓17377. *Phoradendron sanguineum* Trel. (type)
✓17643. *Lobelia gryllorum* Wimmer?
✓17783. *Dendrophthora lindeniana* V. Tiegh
✓17886. *Daphnopsis purdisi* Meissn.
✓18055. *Brunellia funckiana* Tul.
✓18196, 19751, 20632. *Clusia multiflora* H.B.K.
✓18221. *Dendrophthora clavata* (Benth.) Urb.
✓18293. *Perrottetia quindiuensis* H.B.K.
✓18295. *Clusia alata* Pl. & Tr.
✓18369. *Anthurium deflexum* Engl.
✓18676. *Carex jamesonii* Boott (Det. Mackenzie)
✓18736. *Clusia alata* Pl. & Tr.
✓18902. *Ternstroemia clusiacefolia* H.B.K.
✓18903. *Clusia ducu* var. *schlimiana* Pl. & Lind.
✓19019. *Tetrapteris anomala* Morton (type)
✓19065. *Rheedia madruno* Pl. & Tr.
✓19233. *Phaseolus erythroloma* Mart. (correction)
✓19256, 20152, 20276. *Perrottetia quindiuensis* H.B.K.
✓19359. *Ruellia tetrastichantha* Lindau
✓19387. *Dioclea densiflora* Huber
✓19394. *Oxypetalum cordifolium* (Vent.) Schltr.
✓19481. *Helicarpus popayanensis* Z.B.K.
✓19538. *Papaver somniferum* L. (form)
✓19816. *Oxypetalum cordifolium* (Vent.) Schltr.
✓19888. *Psoralea mexicana* (L. f.) Vail
✓19896. *Sisyrinchium convolutum* Mosca
✓20037. *Vismia dealbata* H.B.K.
✓20360. *Gynandropsis coccinea* Benth. (not *Cleome*)
✓20483. *Phoradendron piperoides* (H.B.K.) Trel.
✓20520. *Niconia lindenii* Naud. (Det. Gleason)
✓20832. *Dioclea guianensis* Benth.
✓20857. *Dolichos lablab* L.
✓20862. *Machaerium soritzianum* Benth.
✓20874. *Machaerium subacutum* Killip (type)
✓20897. *Hippocratea acerera* Lam.
✓21066. *Erythrina velutina* Willd.
✓21085. *Phoradendron degenerianum* Trel.
✓21087. *Banisteriopsis heterostyla* (Juss.) Morton (not *B. jasminellum*)
✓21174. *Clusia alata* Pl. & Tr.

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KILLIP - SMITH, COLOMBIA

U. S. National Museum February 19, 1934.

(Flacourtiaceae by Sleumer; Crassulaceae by Walther⁴; Piperaceae by Trelease; others by E. P. Killip, unless otherwise indicated. Note: This holds for other identifications now reported.)

- 14399. *Xylosma prunifolium* (H.B.K.) Tr. & Pl.
✓14482. *Senegalia turbacensis* B. & K. (type)
✓14784. *Casearia arguta* H.B.K.
✓14902. *Dichromena parvula* B. & K. (type; rather than *D. pubera*)
✓14923. *Inga smithii* B. & K. (type; reported as 14293 E. earlier)
✓15030. *Casearia arguta* H.B.K.
✓15500. *Dichondra repens* Forst.
✓15560. *Sibthorpia repens* (L.)
✓17245. *Echeveria bicolor* (H.B.K.) Walth.
✓17399. *Echeveria bicolor* (H.B.K.) Walth.
✓17754. *Sibthorpia repens* (L.)
✓16162. *Peperomia albert-smithii* Trel. (type)
✓16354. *Peperomia pereskiaefolia bucaramangana* Trel.
✓16257. *Casearia arguta* H.B.K.
✓16915. *Crassula multicava* Lem.
✓16955. *Citharexylum montanum* Moldenke (type)
✓18120. *Peperomia rivuligaudens* Trel. (type)
✓18219. *Hydrocotyle bomplandii* Rich.
✓18519. *Sibthorpia* ? (not *Hydrocotyle bomplandii*)
✓19166. *Peperomia adscendens* C. DC. Trel.
✓19521. *Echeveria bicolor* (H.B.K.) Walth.
✓19786. *Xylosma spiculiferum* (Tul.) Tr.
✓20012. *Miconia mesmeana* Gleason (type)
✓20102. *Peperomia undulatifolia* Trel. (type)
✓20128. *Phoradendron piperoides* Trel.
✓20145. *Xylosma rubicundum* (Karst.) Gilg.
✓20667. *Sibthorpia repens* (L.)
21679. *Citharexylum flexuosum* var. *subglabrum* Moldenke (type)
22216. *Muhlenbergia peruviana* (Beauv.) Steud. (not *Aristida capillacea*).
Mixed with this at U.S.N.M. is *Paspalum pygmaeum* Hook. (2216a.)
22270. *Peperomia carducifolia* Trel. (type)
22533. *Heliconia lingulata* R. & P. (det. Griggs)
30235. *Solanum subinerme* Jacq. (det. C.V. Morton)
30284. " " " " "
30359. " " " " "
30381. " *platyphyllum* H.B.K. (det. C.V. Morton) "
30405. " *subinerme* Jacq. " "

Current South American Collections.

(Determinations by E. P. Killip, unless otherwise noted)

Reported by U. S. National Museum, August 1936.

Killip & Smith, Colombia

- ✓14053. *Burseria exsucca* Jacq.
—✓14091. *Desmodium distortum* (Aubl.) Macbr.
✓14471. " *canum* (Gmel.) Schinz & Thell.
✓14224. *Buettneria aculeata* Jacq. (form)
✓14631. *Calycophyllum candidissimum* (Vahl) DC. (det. F. C. Standley)
✓14903. *Cleome glabra* Tumb. (Compared at Paris)
✓14971. *Aegiphila lactea* H.B.K. (corr. by Moldenke)
✓15001. *Befaria hispida* P. & V.
✓15553. *Monopyle leucantha* Moritz (det. Morton)
✓15620. Mixture of *Alchemilla killipii* Rothm. (type),
 A. schimoides Nutt., and *A. vulcanica* C. & S.
✓15945. *Panopsis polystachya* (H.B.K.) Knutse
✓15947. *Disterigma olacanthum* (reported in error as 15945)
✓16800. *Machaerium floribundum* Benth.
✓17098. *Monopyle leucantha* Moritz (det. Morton)
✓17331. *Echeveria columbiana* Poell. type Not *E. bicolor*.
✓17399. *Echeveria columbiana* Poell. Not *E. bicolor*.
✓17816. *Aplopappus lehmannii* var. *subcalvus* Blake (type)
✓17949. *Disterigma capistrifolium* (H.B.K.) Brude (det. A. C. Smith)
✓18438. *Alchemilla holmgrenii* Rothm. (not *A. virginea*; det. Rothmaler)
✓19042. *Marcgravia rectiflora* Tr. & Pl. (Compared with type at Paris;
 most specimens referred here are *M. brownii* (Tr. & Pl.) Krug. & Urb.)
✓19273. *Monopyle leucantha* Moritz (det. Morton)
✓17941. *Dendrophthora clavata* (Benth.) Urb. (Compared with type at Kew)
✓20074. *Centropogon temulifolius* Wimmer (type)
- 1119741

Killip & Smith, Colombia

Reported May 19, 1938

(Det. E.P. Killip, unless otherwise noted)

- ✓ 14104. *Citrullus vulgaris* Schrad. (Det. Harms)
- ✓ 14128. *Sida acuta* Burm.
- ✓ 14144. *Portulaca mucronata* Link
- ✓ 14175. *Anoda cristata* (L.) Schl.
- ✓ 14281. *Luffa cylindrica* (L.) Roem.
- ✓ 14495. *Wissadula amplissima* (L.) Pries
- ✓ 14560. *Malachra alceaefolia* Jacq.
- ✓ 14582. *Anemopaegma retusum* Sprague
- ✓ 14603. *Halothgia guadalupensis* (Spreng.) Urb.
- ✓ 14714. *Kostelatzya sagittata* Presl
- ✓ 14842. *Hypolytrum sylvaticum* Poepp. & Kunth
- ✓ 14939. *Trichilia aff. T. flava* C. DC. (Det. Harms)
- ✓ 15097. *Calea*^{eukorpal} var. *mirtella* Blake (type)
- ✓ 15366. *Steiractinia lucidula* Blake (type)
- ✓ 15458. *Psidium catteianum* Sabine
- ✓ 15486. *Saracha procumbens* (Cav.) R. & P. (Det. Morton)
- ✓ 15544. *Saracha nitida* Bitt. (Det. Morton)
- ✓ 16124. *Ichthyothere grandifolia* Blake (type)
- ✓ 16265. *Davilla lacunosa* Mart.? (Det. Sleumer)
- ✓ 16649. *Aniba puchnary-minor* (Mart.) Mez (Det. Kostermans)
- ✓ 16757. *Malvastrum peruvianum* (L.) Gray
- ✓ 16860. *Cuphea serpyllifolia* H.B.K.
- ✓ 16869. *Malvastrum peruvianum* (L.) Gray
- ✓ 17358. *Ranunculus flagelliformis* Sm. (already reported?)
- ✓ 17426. *Eugenia ternifolia* Berg
- ✓ 17574. *Poa cucullata* Hack. (not *P. pardoana*; corr. by Swallen)
- ✓ 17816. *Aplopappus leimannii* var. *subcalvus* Blake (type)
- ✓ 18181. *Ranunculus*
- ✓ 18230. *Calea acoma* Blake (Det. Blake)
- ✓ 18440. *Diplostephium glutinosum* Blake (type)
- ✓ 18866. *Calea subcordata* Blake (Det. Blake)
- ✓ 18898. *Calea subcordata* Blake (Det. Blake)
- ✓ 18936. *Intricularis obtusa* Sw.
- ✓ 19486. *Malvastrum peruvianum* (L.) Gray
- ✓ 19571. *Diplostephium apiculatum* Blake (type)
- ✓ 19633. *Eugenia triqueta* Berg
- ✓ 19637. *Calea acoma* Blake (Det. Blake)
- ✓ 19808. *Calea subcordata* Blake (Det. Blake)
- ✓ 19882. *Eugenia mariquitensis* Berg
- ✓ 19898. *Aiouea dubia* (H.B.K.) Mez (aff.) (Det. Kostermans)
- ✓ 20152. *Perrottetia quindimensis* H.B.K.
- ✓ 20276. " " "
- ✓ 20721. *Calea acoma* Blake (Det. Blake)
- ✓ 21061. *Conocarpus erecta* L.
- ✓ 21084. *Casearia tremula* (Griseb.) Wright
- ✓ 21173. *Aragoa lycopodioides* Benth.
- ✓ 21200. *Bombax?* (specimen too fragmentary)
- ✓ 23753. *Saracha procumbens* (Cav.) R. & P. (Det. Morton)

9

Killip & Smith - Colombia
Detd. E. P. Killip unless otherwise noted
(Reported by U.S.N.M., April 1942)

- X 14328. *Galowystion aculeatum* (L.) House
- 14532. *Bonamia ferruginea* (Karst. & Tr.) B. & H.
14656. *Anthurium crassinervium* (Jacq.) Schott
- 15392. *Rauwolfia sanctorum* Woodson (type; reported as *R. moricandii*)
16298. *Anthurium maximum* (Desf.) Engl.
- 16565. " *denudatum* Engl.
16588. *Caladium*
17064. *Anthurium multinervium* Engl.
- 17897. *Maytemus blepharodes* Lundell (type)
X 18240. *Diplostephium apiculatum* Blake (Det. Blake)
- 18346. *Anthurium nitidum* Benth.
X 18536. *Plagiocheilus solivaeformis* DC. (ex char.; det. Blake)
X 18579. *Cotula minuta* (L. f.) Sweet Det. Blake
X 18646. *Gentiana nevadensis* Gilg
- 18762. 19978. *Anthurium magnificum* Linden
X 19548. *Ranunculus mandonianus* Wedd.
= 20193, 20380 (type), 21224. *Styrax pseudargyrophyllus* Steumer (not
S. micrasterus)
- 20456. *Anthurium funiferum* Kl.
X 20917. *Ipomoea tiliacea* (Willd.) Chois
21162. *Septoria didyma* Fkl. Det. Stevenson
X 21208. *Olea europaea* L.

dets. entered
file

Jan. 1952

Killip & Smith, Colombia
Det. J. Cuatrecasas

- ✓ 15398 *Senecio ellsworthii* Cuatr.
15651 " *viridi-albus* Cuatr.
✓ 15655 " *elatoides* Wedd.
15688 *Gynoxys subcinerea* Cuatr.
15867 *Ilex velutinulosa* Cuatr. (type)
✓ 17228 *Gynoxys subcinerea* Cuatr.
✓ 17244 " " "
✓ 17463 *Senecio novolanatus* Cuatr.
✓ 17505 " " " (type)
✓ 17520 " *alberto-smithii* Cuatr. (type)
✓ 17577 *Gynoxys subcinerea* Cuatr.
✓ 17610 " " "
✓ 17728 *Senecio aff. trianai*
17961 " *elatoides* Wedd. (not S. aciculatus)
18051 " *theaefolius* f. *setulosus* (Klatt) Cuatr.
✓ 18089 " *pseudoformosus* Cuatr.
18104 " " "
18204 *Gynoxys subcinerea* Cuatr.
18241 *Senecio vaccinioides* (H.B.K.) Sch. Bip.
✓ 18602 x " x *S. novolanatus* (hyb.)
18605 *Gynoxys subcinerea* Cuatr.
✓ 18618 *Senecio elatoides* Wedd.
✓ 18955 " *bejucosus* Cuatr. (form)
✓ 19002 " *pennellii* Greenm. (form)
✓ 19413 " *ellsworthii* Cuatr.
✓ 19576 *Gynoxys subcinerea* Cuatr.
✓ 19619 *Senecio pulchellus* (H.B.K.) DC. (form)
✓ 19695 " *xanthopappus* Klatt
✓ 19710 " *pulchellus* (H.B.K.) DC. (form)
✓ 19872 " *haticoensis* Cuatr. (not S. ellipticifolius)
✓ 19908 " *pennellii* var. *gachetensis* Greenm.
✓ 20381 " *bejucosus* Cuatr. (form)
✓ 20488 " *haticoensis* Cuatr. (not S. ellipticifolius)
20581 " " " " "
✓ 20601 " *aff. pennellii* Greenm.
✓ 20735 " *haticoensis* Cuatr. (type)

KILLIP & SMITH COLLECTION

All identifications by H. A. Gleason, unless otherwise stated.

- ✓14011 *Laguncularia racemosa* (L.) Gaertn. ✓14349 *Melicocca bijuga* L.
 ✓14012 *Conocarpus erecta* L. ✓14354 *Hedychium coronarium* Konig
 ✓14014 *Beureria cumanensis* (Loefl.) O. E. Schulz. (det. N.L.B.) ✓14355 *Dorstenia contrajervae* L.
 ✓14024 *Thespesia populnea* (L.) Soland. ✓14363 *Bihai Bihai* (L.) Griggs
 ✓14025 *Ricinus communis* L. ✓14376 *Boussingaultia leptostachys* Moq. (det. P.Wilson)
 ✓14029 *Capraria biflora* L. ✓14400 *Serjania grandidens* Radlk.
 ✓✓14035 *Bouchea prismatica* (L.) Kuntze (det. P. Wilson) ✓14450 *Trianthema portulacastrum* L. (det. P.Wilson)
 ✓14036 *Tribulus cistoides* L. ✓14506 *Banisteriopsis cornifolia* (HBK) C.B.Rob.
 ✓14039 *Kallstroemia maxima* (L.) T. & G. ✓14544 *Vernonia gracilis* HBK.
 ✓14054 *Rivina humilis* L. (det. P.Wilson) ✓14546 *Spiracantha cornifolia* HBK.
 ✓14067 *Stylosanthes humilis* HBK. ✓✓14559 *Aeschynomene americana* L.
 ✓14083 *Malpighia glabra* L. ✓14574 *Aeschynomene sensitiva* Sw.
 ✓14092 *Coccobolis uvifera* (L.) Jacq. ✓14575 *Piaropus azureus* (Sw.) Raf.
 ✓14139 *Aeschynomene fascicularis* C. & S. ✓14576 *Pacourina edulis* Aubl.
 ✓14156 *Portulaca halimoides* L. (det. P. Wilson) ✓14592 *Piaropus crassipes* (Mart.) Britton
 ✓14157 *Portulaca oleracea* L. (dt. P. Wilson) ✓14598 " " " "
 ✓14183 *Rivina humilis* L. (det. P.Wilson) ✓14610 *Bradburya Plumieri* (Turp.) Kuntze
 ✓14188 *Aeschynomene americana* L. ✓14662 " " " "
 ✓14204 *Aeschynomene fascicularis* C.&S. ✓14665 *Vernonia gracilis* HBK
 ✓14226 *Machaerium glabratum* Pittier ✓14669 *Tetrapterys papyracea* Tr. & Pl.
 ✓14247 *Cardiospermum grandiflorum* Sw. ✓14722 *Bradburya virginiana* (L.) Kuntze
 ✓14248 *Serjania grandidens* Radlk. ✓14787 *Thalia geniculata* L.
 ✓14265 *Mucuna Sloanei* Fawc. & Rendle ✓14828 *Zornia diphylla* (L.) Pers.
 ✓14274 *Aeschynomene fascicularis* C.& S. ✓14834 *Aciotis purpurascens* (Aubl.) Triana
 ✓14287 *Potomorphe peltata* (L.) Miq. ✓14846 *Miconia nervosa* (Sw.) Triana
 ✓14297 *Dorstenia contrajervae* L. ✓14847 *Ichnosiphon aruma* (Aubl.) Koern.
 ✓14331 *Cardiospermum grandiflorum* Sw. ✓14856 *Renealmia occidentalis* (Sw.) Sweet
 ✓14546 *Fleurya aestuans* (L.) Gaud. ✓14860 *Elephantopus mollis* HBK.

- 2
- ✓ 14870 *Miconia cinochrophylla* Donn.Sm.
 ✓ 14886 *Cajan cajan* (L.) Millsp.
 ✓ 14891 *Calopogonium mucunoides* Desv.
 ✓ 14916 *Tonina fluviatilis* Aubl.
 ✓ 14921 *Clidemia dependens* D.Don
 ✓ 14925 *Aciotis purpurascens* (Aubl.) Triana ✓ 15279 *Pterogastra major* Triana
 ✓ 14933 *Calopogonium coeruleum* (Benth.) Hemsl. ✓ 15284 *Meriania longifolia* (Naud.) Cogn.
 ✓ 14956 *Stigmaphyllon Humboldtianum* A.Juss. ✓ 15303 *Acisanthera recurva* (L.C.Rich.)
 ✓ 14991 *Banisteriopsis argentea* (HBK) C.B.Rob. ✓ 15313 *Byrsonima verbascifolia* (L.) DC.
 ✓ 15003 *Siphocampylus longebracteolatus* Wimmer ✓ 15377 *Elephantopus mollis* HBK.
 ✓ 15008 *Miconia rufescens* (Aubl.) DC. ✓ 15409 *Vernonia scorpioides* (Lam.) Pers.
 ✓ 15017 *Siphocampylus longebracteolatus* Wimmer ✓ 15411 *Miconia albicans* (Sw.) Triana
 ✓ 15018 *Ernestia quadrisetosa* O.Berg ✓ 15427 *Miconia minutiflora* (Bonpl.) DC.
 ✓ 15019 *Siphocampylus longebracteolatus* Wimmer ✓ 15442 *Vernonia scorpioides* (Lam.) Pers.
 ✓ 15028 *Miconia stenostachya* (Schr. & Mart.) DC. ✓ 15444 *Vernonia patens* HBK.
 ✓ 15046 *Tibouchina Lindeniana* Cogn. ✓ 15481 *Miconia theaezans* (Bonpl.) Cogn.
 ✓ 15048 *Siphocampylus longebracteolatus* Wimmer ✓ 15507 *Vernonia canescens* HBK.
 ✓ 15062 *Miconia ibaguensis* (Bonpl.) Triana ✓ 15579 *Siphocampylus Schlimmianus* Planch.
 ✓ 15063 *Tibouchina Lindeniana* Cogn. ✓ 15602 *Purpurella grossa* (L.) Triana
 ✓ 15073 *Miconia dodecandra* (Desr.) Cogn. ✓ 15666 *Castratella pilosellædes* (Bonpl.)
 ✓ 15081 *Miconia stenostachya* DC. Naud.
 ✓ 15082 *Heterotrichum glandulosum* Cogn. ✓ 15690 *Miconia reclinata* (Bonpl.) Naud.
 ✓ 15086 *Clidemia impetiolaris* (Naud.) Cogn. ✓ 15698 *Chaetolepis Lindeniana* (Naud.) Triana
 ✓ 15101 *Pterogastra major* Triana ✓ 15731 *Miconia salicifolia* (Bonpl.) Naud.
 ✓ 15107 *Tibouchina Lindeniana* Cogn. ✓ 15741 *Monochaetum myrtoideum* (Bonpl.) Naud.
 ✓ 15164 *Ernestia tenella* (Bonpl.) DC. ✓ 15801 *Chaetolepis Lindeniana* (Naud.) Triana
 ✓ 15197 *Miconia prasina* (Sw.) DC. ✓ 15993 *Miconia pedicellata* Cogn.
 ✓ 15216 *Pterogastra major* Triana ✓ 16084 " " "
 ✓ 15233 *Tibouchina gracilis* (Bonpl.) Cogn. ✓ 16182 *Vernonia patens* HBK.
 ✓ 15273 *Miconia theaezans* (Bonpl.) Cogn. ✓ 16190 *Machaerium copote* Triana
 ✓ 16196 *Vernonia canescens* HBK.
 ✓ 16239 *Mascagnia nervosa* Ndz.
 ✓ 16248 *Miconia rubiginosa* (Bonpl.) DC.
 ✓ 16250 *Byrsonima crassifolia* (L.) DC.
 ✓ 16318 *Machaerium glabratum* Pittier

- 3
- ✓16325 *Stigmaphylon Humboldtianum* A.Juss. ✓17559 *Miconia salicifolia* (Bonpl.) Naud.
 ✓16337 *Aeschynomene paniculata* Willd. ✓17589 *Chaetolepis alpina* Naud.
 ✓16387 *Vernonia canescens* HBK. ✓17638 *Miconia reclinata* (Bonpl.) Naud.
 ✓16430 *Tibouchina Lindeniana* Cogn. ✓17640 " *salicifolia* (Bonpl.) Naud.
 ✓16443 *Centropogon cornutus* (L.) Druce ✓17651 *Chaetolepis Lindeniana* (Naud.) Triana
 ✓16451 *Typha angustifolia* L. ✓17666 " " " "
 ✓16504 " " " ✓17726 *Miconia reclinata* (Bonpl.) Naud.
 ✓16523 *Vernonia canescens* HBK. ✓17770 *Purpurella grossa* (L.) Triana
 ✓16544 *Miconia theaezans* (Bonpl.) Cogn. ✓17824 *Axinaea floribunda* (Naud.) Triana
 ✓16553 *Vernonia canescens* HBK. ✓17834 " " " "
 ✓16609 " " " ✓17876 *Siphocampylus Funckeanus* Planch.
 ✓16729 *Leandra subseriata* (Naud.) Cogn. ✓18052 *Monoch aetum myrtoideum* (Bonpl.) Triana
 ✓16769 *Chaetolepis microphylla* (Bonpl.) Miq. ✓18103 *Siphocampylus Schlimmianus* Planch.
 ✓16875 *Miconia theaezans* (Bonpl.) Cogn. ✓18142 " *elegans* Planch.
 ✓16894 *Siphocampylus elegans* Planch. ✓18173 *Purpurella grossa* (L.) Triana
 ✓16908 *Monochaetum myrtoideum* (Bonpl.) Naud. ✓18186 *Miconia reclinata* (Bonpl.) Naud.
 ✓16928 *Siphocampylus elegans* Planch. ✓18189 *Chaetolepis Lindeniana* (Naud.) Triana
 ✓16945 " *Schlimmianus* Planch. ✓18214 " *alpina* Naud.
 ✓16987 *Leandra subseriata* (Naud.) Cogn. ✓18227 " " "
 ✓16995 *Siphocampylus elegans* Planch. ✓18265 *Monochaetum myrtoideum* (Bonpl.) Naud.
 ✓17034 *Tibouchina longifolia* (Vahl) Baill. ✓18285 *Siphocampylus elegans* Planch.
 ✓17118 *Chaetolepis microphylla* (Bonpl.) Miq. ✓18396 *Vernonia canescens* HBK.
 ✓17144 *Siphocampylus elegans* Planch. ✓18403 *Chaetolepis Lindeniana* (Naud.) Triana
 ✓17185 " " " ✓18423 *Miconia salicifolia* (Bonpl.) Naud.
 ✓17202 " *Schlimmianus* Planch. ✓18434 *Chaetolepis alpina* Naud.
 ✓17208 " *elegans* Planch. ✓18441 *Miconia reclinata* (Bonpl.) Naud.
 ✓17229 *Chaetolepis Lindeniana* (Naud.) Triana ✓18464 " " " "
 ✓17312 *Monochaetum myrtoideum* (Bonpl.) Naud. ✓18467 *Chaetolepis alpina* Naud.
 ✓17448 *Tibouchina Lindeniana* Cogn. ✓18533 *Miconia reclinata* (Bonpl.) Naud.
 ✓17453 *Leandra subseriata* (Naud.) Cogn. ✓18537 *Purpurella grossa* (L.) Triana

- ✓18565 *Chaetolepis alpina* Naud. ✓19991 *Siphocampylus Funckeanus* Planch.
 ✓18567 " *Lindeniana* (Naud.) Triana ✓19993 *Centropogon affinis* Mart. & Gal.
 ✓18641 *Castratella piloselloides* (Bonpl.) Naud. 20036 *Stigmaphyllon Ruizianum* Ndz.
 ✓18800 *Centropogon affinis* Mart. & Gal. ✓20043 *Vernonia canescens* HBK.
 var. *venezuelanus* Wimmer ✓20054 *Miconia theaezans* (Bonpl.) Cogn.
 ✓18809 *Tibouchina lepidota* (Bonpl.) Baill. ✓20060 *Leandra Fendleri* Cogn.
 ✓18858 *Leandra subseriata* (Naud.) Cogn. ✓20072 *Vernonia canescens* HBK.
 ✓18876 *Stigmaphyllon Ruizianum* Ndz. ✓20125 *Miconia aeruginosa* Naud.
 ✓18881 *Miconia theaezans* (Bonpl.) Cogn. ✓20142 *Miconia theaezans* (Bonpl.) Cogn.
 ✓18890 *Tibouchina Lindeniana* Cogn. ✓20149 *Leandra subseriata* (Naud.) Cogn.
 ✓18915 *Leandra subseriata* (Naud.) Cogn. ✓20194 *Miconia floribunda* (Bonpl.) DC.
 ✓19081 *Miconia theaezans* (Bonpl.) Cogn. ✓20346 *Stigmaphyllon Ruizianum* Ndz.
 ✓19230 *Leandra subseriata* (Naud.) Cogn. ✓20362 *Centropogon affinis* Mart. & Gal.
 var. *venezuelanus* Wimmer ✓20394 *Siphocampylus Schlimmianus* Planch.
 ✓19240 *Vernonia canescens* HBK. ✓20510 *Vernonia canescens* HBK.
 ✓19306 *Miconia theaezans* (Bonpl.) Cogn. ✓20548 *Stigmaphyllon Ruizianum* Ndz.
 ✓19350 *Clidemia dependens* D.Don ✓20574 *Siphocampylus Schlimmianus* Planch.
 ✓19388 *Vernonia canescens* HBK. ✓20593 *Miconia longifolia* (Aubl.) DC.
 ✓19455 *Leandra subseriata* (Naud.) Cogn. ✓20653 *Monochaetum myroideum* (Bonpl.) Naud.
 ✓19532 *Chaetolepis alpina* Naud. ✓20782 *Tibouchina longifolia* (Vahl) Baill.
 ✓19589 *Monochaetum myroideum* (Bonpl.) Naud. ✓20785 *Arthrostemma volubile* (Naud.) Triana
 ✓19596 *Chaetolepis Lindeniana* (Naud.) Triana ✓20821 *Vernonia canescens* HBK.
 ✓19711 *Siphocampylus Funckeanus* Planch. ✓20834 *Miconia albicans* (Sw.) Triana
 ✓19714 *Miconia ligustrina* (Smith) Triana ✓20858 *Clidemia dependens* D.Don
 ✓19741 *Phoradendron* sp on *Miconia ligustrina* ✓20864 *Vernonia brasiliiana* (L.) Druce
 (Smith) Triana ✓20888 *Tetrapterys papyracea* Tr. & Pl.
 ✓19810 *Stigmaphyllon Ruizianum* Ndz. ✓20918 *Stigmaphyllon Humboldtianum* A.Juss.
 ✓19830 *Centropogon affinis* Mart. & Gal. ✓20928 *Vernonia scorpioides* (Lam.) Pers.
 var. *venezuelanus* Wimmer ✓20990 *Vernonia brasiliiana* (L.) Druce
 ✓19839 *Siphocampylus Funckeanus* Planch. ✓21087 *Banisteriopsis Jasminellum* (A.Juss.)
 ✓19905 *Miconia ligustrina* (Smith) Triana
 ✓19921 *Centropogon affinis* Mart. & Gal.
 ✓19934 *Siphocampylus Funckeanus* Planch.
 ✓19975 *Centropogon affinis* Mart. & Gal.
 var. *venezuelanus* Wimmer

- ✓ 21095 *Stigmaphyllo Humboldtianum* A.Juss.
o 21136 *Leandra Fendleri* Cogn.
✓ 21142 *Siphocampylus Funckeanus* Planch.
o 21147 *Bucquetia glutinosa* (L.) DC.
o 21184 *Acisanthera recurva* (L.C.Rich.) Griseb.

List submitted January 19, 1928

Gray

KILLIP & SMITH PLANTS DET. AT NEW YORK BOTANICAL GARDEN

✓ 14016	Canavalia fendleri Piper	PW	✓ 14307	<i>Cissus sicyoides</i> L.	PW
✓ 14017	<i>Melochia tomentosa</i> L.	PW	✓ 14313	<i>Ocimum micranthum</i> Willd.	PW
✓ 14054	<i>Ipomoea nil</i> (L.) Roth.	PW	✓ 14317	<i>Coccinea cordifolia</i> (L.) Cogn.	PW
✓ 14043	<i>Priva lappulacea</i> (L.) Pers.	PW	✓ 14318	<i>Operculina dissecta</i> (Jacq.) House	PW
✓ 14044	<i>Guiacum arboreum</i> DC.	PW	✓ 14320	<i>Buettneria carthaginensis</i> Jacq.	PW
✓ 14046	<i>Chamaesyce hirta</i> L.	PW	✓ 14333	<i>Stemmadenia grandiflora</i> (Jacq.) Miers	PW
✓ 14048	<i>Panicum trichoides</i> Sw.	PW	✓ 14337	<i>Croton niveus</i> Jacq.	PW
✓ 14049	<i>Hura crepitans</i> L.	PW	✓ 14351	<i>Achras zapota</i> L.	PW
✓ 14057	<i>Capraria biflora</i> L.	PW	✓ 14359	<i>Microtea debilis</i> Sw.	PW
✓ 14059	<i>Indigofera suffruticosa</i> Mill.	PW	✓ 14365	<i>Dalechampia scandens</i> L.	PW
✓ 14062	<i>Melochia tomentosa</i> L.	PW	✓ 14371	<i>Asclepias curassavica</i> L.	PW
✓ 14070	<i>Corchorus orinocensis</i> HBK.	PW	✓ 14377	<i>Sterculia apetala</i> (Jacq.) Karst.	PW
✓ 14072	<i>Crescentia cujete</i> L.	PW	✓ 14379	<i>Indigofera suffruticosa</i> Mill.	PW
✓ 14075	<i>Acalypha alopecuroides</i> Jacq.	PW	✓ 14406	<i>Dendropanax arboreum</i> (L.) Dec. &	Pl. PW
✓ 14077	<i>Petiveria alliacea</i> L.	PW	✓ 14088	<i>Abrus abrus</i> (L.) W.F.Wight	PW
✓ 14094	<i>Rhizophora mangle</i> L.	PW	✓ 14123	" " " "	PW
✓ 14095	<i>Suriania maritima</i> L.	PW	✓ 14423	<i>Stizolobium pruritum</i> (Wight) Piper	PW
✓ 14104	<i>Citrullus citrullus</i> (L.) Small	PW	✓ 14447	<i>Ipomoea abutiloides</i> (HBK.) Don	PW
✓ 14106	<i>Croton punctatus</i> Jacq.	PW	✓ 14451	<i>Capraria biflora</i> L.	PW
✓ 14108	<i>Calotropis procera</i> (Ait.) R.Br.	PW	✓ 14464	<i>Bredemeyera floribunda</i> Willd.	PW
✓ 14110	<i>Canavalia maritima</i> (Aubl.) Thou.	PW	✓ 14465	<i>Quamoclit coccinea</i> (L.) Moench.	PW
✓ 14113	<i>Ipomoea pes-caprae</i> (L.) Roth	PW	✓ 14467	<i>Duranta repens</i> L.	PW
✓ 14120	<i>Quamoclit coccinea</i> (L.) Moench.	PW	✓ 14468	<i>Datura fastuosa</i> L.	PW
✓ 14134	<i>Sesuvium portulacastrum</i> L.	PW	✓ 14476	<i>Mammea americana</i> L.	PW
✓ 14137	<i>Evolvulus glaber</i> Spreng.	PW	✓ 14478	<i>Jatropha urens</i> L.	PW
✓ 14142	<i>Elaterium carthaginense</i> Jacq.	PW	✓ 14484	<i>Sapota achras</i> Mill.	PW
✓ 14146	<i>Spigelia anthelmia</i> L.	PW	✓ 14485	<i>Bixa orellana</i> L.	PW
✓ 14151	<i>Chamaesyce hirta</i> L.	PW	✓ 14486	<i>Chrysophyllum cainito</i> L.	PW
✓ 14153	<i>Chiococca alba</i> (L.) Hitchc.	PW	✓ 14493	<i>Hyptis suaveolens</i> (L.) Poit.	PW
✓ 14154	<i>Hippomane mancinella</i> L.	PW	✓ 14525	<i>Microtea debilis</i> Sw.	PW
✓ 14160	<i>Crotalaria incana</i> L.	PW	✓ 14532	<i>Maripa scandens</i> Aubl.	PW
✓ 14161	<i>Rauwolfia canescens</i> L.	PW	✓ 14534	<i>Capsicum baccatum</i> L.	PW
✓ 14162	<i>Momordica charantia</i> L.	PW	✓ 14535	<i>Bredemeyera floribunda</i> Willd.	PW
✓ 14169	<i>Melampodium divaricatum</i> (Rich.) DCPW	✓ 14551	<i>Porophyllum macrocephalum</i> DC.	PAR	
✓ 14181	<i>Acalypha alopecuroides</i> Jacq.	PW	✓ 14555	<i>Ipomoea polyanthes</i> R. & S.	PW
✓ 14186	<i>Tubiflora squamosa</i> (Jacq.) Kuntze	PW	✓ 14564	<i>Crotalaria retusa</i> L.	PW
✓ 14191	<i>Rauwolfia canescens</i> L.	PW	✓ 14573	<i>Jussiaea erecta</i> L.	PW
✓ 14205	<i>Canavalia fendleri</i> Piper	PW	✓ 14577	<i>Jussiaea natans</i> H. & B.	PW
✓ 14216	<i>Evolvulus paniculatus</i> (HBK.) DC.	PW	✓ 14581	<i>Lawsonia inermis</i> L.	PW
✓ 14228	<i>Ipomoea nil</i> (L.) Roth	PW	✓ 14582	<i>Scoparia dulcis</i> L.	PW
✓ 14232	<i>Ipomoea meyeri</i> (Spreng.) D.Don	PW	✓ 14583	<i>Hyptis brevipes</i> Poit.	PW
✓ 14234	<i>Ipomoea abutiloides</i> (HBK.) Don	PW	✓ 14594	<i>Acalypha arvensis</i> Poepp. & Endl.	PW
✓ 14252	<i>Capicum baccatum</i> L.	PW	✓ 14596	<i>Ipomoea crassicaulis</i> (Benth.) Rob.	PW
✓ 14255	<i>Hura crepitans</i> L.	PW	✓ 14597	<i>Utricularia foliosa</i> L.	JHB
✓ 14258	<i>Euphorbia adiantoides</i> Lam.	PW	✓ 14611	<i>Ipomoea nil</i> (L.) Roth.	PW
✓ 14280	<i>Scoparia dulcis</i> L.	PW	✓ 14616	<i>Datura metel</i> L.	PW
✓ 14282	<i>Tridax procumbens</i> L.	PW	✓ 14617	<i>Jatropha gossypifolia</i> L.	PW
✓ 14284	<i>Guazuma guazuma</i> (L.) Cockerell	PW	✓ 14618	<i>Leonotis nepetaefolia</i> (L.) R.Br.	PW
✓ 14288	<i>Tubiflora squamosa</i> (Jacq.) Ktze.	PW	✓ 14619	<i>Cryptostegia grandiflora</i> R.Br.	PW
✓ 14290	<i>Tectaria martinicensis</i> (Spr.)	Copel.ACS	✓ 14620	<i>Canavalia fendleri</i> Piper	PW
✓ 14294	<i>Panicum zizanioides</i> HBK.	PW	✓ 14633	<i>Dalechampia tiliifolia</i> Lam.	PW
✓ 14303	<i>Elaterium carthaginense</i> Jacq.	PW	✓ 14636	<i>Carica biflora</i> L.	PW
			✓ 14644	<i>Quamoclit coccinea</i> (L.) Moench.	PW
			✓ 14653	<i>Tabernaemontana psychotrifolia</i> HBK	PW

KILLIP AND SMITH PLANTS DET. AT NEW YORK BOTANICAL GARDEN

- ✓14654 *Ipomoea sericantha* Griseb. PW
 ✓14663 *Sapindus Saponaria* L. HAG
 ✓14687 *Ocimum basilicum* L. PW
 ✓14688 *Leonurus sibiricus* L. PW
 ✓14691 *Ipomoea abutiloides* (HBK) Don PW
 ✓14702 *Hyptis mutabilis* (L.CRich.) Briquet PW
 ✓14703 *Mykosyrinx Cissi* (DC) G.Beck PW
 ✓14713 *Ipomoea polyanthes* R and S PW
 ✓14719 *Stethoma comata* (L.) Britton PW
 ✓14724 *Melia Azedarach* L. PW
 ✓14726 *Ceiba pentandra* (L.) Gaertn. PW
 ✓14731 *Manihot Manihot* (L.) Cockerell PW
 ✓14757 *Manihot Manihot* (L.) Cockerell PW
 ✓14758 *Chamissoa altissima* (Jacq) HBK PW
 ✓14765 *Chamissoa altissima* (Jacq) HBK PW
 ✓14767 *Blechum Blechum* (L.) Millsp. PW
 ✓14778 *Ipomoea polyanthes* R. and S. PW
 ✓14779 *Jussiaea erecta* L. PW
 ✓14781 *Utricularia foliosa* L. ACS
 14791 *Ceratopteris pteridooides* (Hook) Hieron. ACS
 ✓14794 *Hyptis atrorubens* Poit. PW
 ✓14796 *Pavonia sessiliflora* HBK PW
 ✓14805 *Oldenlandia herbacea* (L.) DC PW
 ✓14806 *Hyptis verticillata* Jacq. PW
 ✓14814 *Coutoubea ramosa* Aubl.
 ✓14816 *Dioclea lasiocarpa* Mart.
 ✓14819 *Pityrogramma calomelaena* (L.) Link.
 ✓14826 *Urena sinuata* L.
 14831 *Salpichlaena volubilis* (L.) L.Sm.
 ✓14835 *Clidemia neglecta* D.Don. ACS
 ✓14837 *Lindsaya falcata* Dry. HAG
 ✓14858 *Hyptis atrorubens* Poit. ACS
 ✓14883 *Anacardium occidentale* L. PW
 ✓14888 *Pavonia sessiliflora* HBK PW
 ✓14913 *Jussiaea nervosa* Poir. PW
 ✓14926 *Mabea occidentalis* Benth. PW
 ✓14936 *Stethoma comata* (L.) Britton PW
 ✓14973 *Miconia triplinervis* R. and P. PW
 ✓14984 *Psidiopeanax Maritzianax*
 ✓14994 *Cerbera Thevetia* L.
 15011 *Aneimia villosa* H. and B. ACS
 ✓15018 *Ernestia quadrisetosa* O.Berg HAG
 ✓15035 *Lindsaya stricta* (Sw.) Dry. ACS
 ✓15087 *Marsypianthes Chamaedrys* (Vahl) Kuntze PW
 ✓15123 *Fuchsia hybrida* Voss PW
 ✓15134 *Leiphaimos aphylla* (Jacq) Gilg. PW
 ✓15142 *Stenophyllus junciformis* (HBK) Britton NLB
 ✓15149 *Oleandra neriiformis* Cav. ACS
 ✓15150 *Vittaria stipitata* Kze. ACS
 ✓15169 *Oleandra neriiformis* Cav. ACS

✓15172 *Ocotea guianensis* Aubl. PW
 ✓15199 *Siphocampylus reticulatus* (Willd.) Kl. and Karsten HAG
 ✓15218 *Ichnanthus verticellatus* Mez. PW
 ✓15239 *Stenophyllus junciformis* (HBK) Britton NLB
 ✓15244 *Matayba longipes* Radlk. HAG
 15271 *Vittaria stipitata* Kze ACS
 ✓15308 *Browallia americana* L. PW
 ✓15337 *Lindsaya stricta* (Sw.) Dry ACS
 ✓15371 *Cupania americana* L. HAG
 ✓15404 *Marsypianthes chamaedrys* (Vahl) Kuntze PW
 ✓15408 *Brugmansia arborea* (L.) Steud. PW
 ✓15412 *Solanum heterophyllum* Lam. ACS
 ✓15428 *Dolichos Lablab* L. PW
 ✓15431 *Bradburya virginiana* (L.) Kuntze PW
 ✓15437 *Gliricidia Sepium* (Jacq.) Steud. PW
 ✓15450 *Solanum asperum* L. C.Rich. ACS
 ✓15452 *Trichanthera gigantea* (H. and B.) Nees. PW
 ✓15466 *Biophytum dendroides* DC PW
 ✓15486 *Saracha jaltomata* Schlecht ACS
 ✓15499 *Satureia Brownii* (Sw.) Brie. PW
 ✓15523 *Chelonanthus acutangulus* (R. and P.) Gilg. PW
 ✓15534 *Phytolacca rugosa* A.Br. and Bouche PW
 ✓15536 *Browallia americana* L. PW
 ✓15537 *Erechtites valerianaefolia* (Wolf.) DC PAR
 ✓15544 *Saracha jaltomata* Schlect ACS
 ✓15545 *Cyclanthera leptostachya* Benth. PW
 ✓15616 *Hpyericum platyphyllum* Gleason HAG
 ✓15617 *Hypericum Brathys* Lam. HAG
 ✓15619 *Eryngium humile* Cav. PW
 ✓15629 *Gentiana corymbosa* HBK PW
 ✓15635 *Poa pardoana* Pilger PW
 ✓15650 *Hypericum Phellos* Gleason HAG
 ✓15694 *Hypericum chamaemyrtus* Tr. and Pl. HAG
 ✓15715 *Epilobium denticulatum* R. and P. PW
 ✓15738 *Daucus montanus* H. and B. PW
 ✓15812 *Psilogramme hirta* (HBK) Kuhn ACS
 ✓15824 *Hypericum carinosum* Keller HAG
 ✓15832 *Ruta chalapensis* L. PW
 ✓15851 *Hypericum Brathys* Lam. HAG
 ✓15856 " " HAG
 ✓15891 *Grammadenia Lehmannii* Mez. PW
 ✓15919 *Miconia theaezans* (Bonpl.) Cogn. HAG
 ✓15920 *Hypericum carinosum* Keller HAG

KILLIP AND SMITH PLANTS DETERMINED AT N.Y.B.G.

- ✓15953 Vernonia Lehmannii Hieron. HAG 16518 Sida rhombifolia L. PW
 16068 Pityrogramma tartarea(Cav)MaxACS 16531 Solanum foetidum R.and P. ACS
 ✓16105 Lobelia micrantha HBK HAG 16543 Fuchsia hybrida Voss. PW
 ✓16159 Vernonia Lehmannii Hieron. HAG 16602 Alchornea grandiflora Muell.Arg.
 ✓16165 " " HAG PW
 ✓16183 Zanthoxylum Fagara(L.)Kuntze 16603 Sphacele parviflora Benth. PW
 Sarg. PW 16614 Solanum quitense Lam. ACS
 ✓16188 Adenoropium gossypifolium (L.)Pohl. PW 16619 Salvia palaefolia Kunth PW
 ✓16198 Serjania caracasana(Jacq)Willd. HAG 16673 Brugmansia suaveolens(H.and B.) Bercht.and Presl PW
 HAG 16755 Lonicera Japonica Thunb. PW
 16201 Aneimia fulva(Cav.)Sw. ACS 16773 Acnistus arboreus(L)Schlect. PW
 ✓16203 Rivina humilis L. PW 16784 Coriaria thymifolia HBK PW
 ✓16204 Paullinia leiocarpa Griseb. HAG 16790 Physalodes physalodes(L.) Britton ACS
 16207 Adiantopsis chlorophylla (Sw.)Fee ACS 16803 Doryopteris concolor(L.and F.) Kuhn ACS
 ✓16213 Guazuma Guazuma(L)Cockerell PW 16820 Sambucus Simpsoni Rehder PW
 ✓16214 Hyptis mutabilis(LCRich.)BriqPW 16821 Maurandya Barclayana Lindl. PW
 ✓16227 Serjania paniculata HBK HAG 16826 Adenaria floribunda HBK PW
 ✓16232 " " HAG 16851 Cheilanthes myriophylla DesvACS
 ✓16236 Catharanthus roseus(L.)G.Don.PW 16853 Xanthoxalis ciliolata(L.) Small PW
 ✓16243 Acalypha macrostachya Jacq. PW 16857 Notholaena bonariensis(Willd.) C.Chr. ACS
 ✓16246 Arrabidaea pachycalyx SpraguePW 16859 Daucus montanus H.and B. PW
 ✓16252 Zanthoxylum microcarpum GrisebPW 16878 Pityrogramma calomelaena (L.)Link. ACS
 ✓16256 Guazuma Guazuna(L.)Cockerell PW 16893 Solanum torvum Sw. ACS
 ✓16261 Serjania caracasana(Jacq)Willd. HAG 16899 Sphacele parviflora Benth. PW
 HAG 16904 Hypericum carinosum Keller HAG
 ✓16269 Helicteres baruensis Jacq. PW 16947 Solanum oblongifolium HBK ACS
 ✓16272 Warszewiczia coccinea(Vahl) Klotzsch PW 16949 Solanum quitense Lam. ACS
 ✓16287 Jacquemontia pentantha(Jacq.) Don. PW 17007 Browallia americana L. PW
 HAG 17026 Pityrogramma tartarea(Cav)Max. ACS
 ✓16294 Amyris Plumieri DC PW 17047 Ipomoea Meyeri(Spreng)G.Don.PW
 ✓16295 Crotalaria nitens HBK PW 17138 Hypericum laricifolium Gleason (type) HAG
 ✓16309 Quamoclit coccinea(L.)MoenchPW 17156 Solanum oblongifolium HBK ACS
 ✓16312 Paullinia leiocarpa Griseb. HAG 17161 Vicia Faba L. PW
 ✓16313 Scutellaria purpurascens Sw. PW 17173 Lobelia micrantha HBK HAG
 ✓16316 Ocimum micranthum Willd. PW 17175 Pellaea ternifolia(Cav)LinkACS
 ✓16317 Muntingia Calabura L. PW 17194 Franseria artemisioides Willd. PAR
 ✓16328 Adenaria floribunda HBK PW 17211 Aegopogon cenchroides H.and B. PW
 ✓16360 Adiantopsis chlorophylla (Sw.)Fee ACS 17222 Psilogramme flexuosa(H.and B.) Desv. ACS
 HAG 17252 Vicia andicola HBK PW
 61 17262 Xanthoxalis ciliolata(L.) Small PW
 ✓16377 Amyris Plumieri DC PW 17301 Coriaria thymifolia H.and B.PW
 ✓16379 Serjania paniculata HBK HAG 17319 Salvia amethystina Smith PW
 ✓16413 Pavonia sepium St.Hil. PW 17351 Solanum oblongifolium HBK ACS
 ✓16416 Jasminum grandiflorum L. PW 17441 Serjania dasyclados Radlk. HAG
 ✓16419 Adenaria floribunda HBK PW 17462 Hypericum strictum compactum Radlk. HAG
 ✓16423 Cheilanthes myriophylla DesvACS 17490 " " " " " " HAG
 ✓16427 Buddleia americana L. PW
 ✓16478 Echinocystis polycarpa Cogn. PW
 61 17252 Vicia andicola HBK PW
 17262 Xanthoxalis ciliolata(L.) Small PW
 ✓16480 Notholaena bonariensis(Willd.) C.Chr.ACS 17301 Coriaria thymifolia H.and B.PW
 HAG 17319 Salvia amethystina Smith PW
 ✓16489 Jussiaea peruviana L. PW 17351 Solanum oblongifolium HBK ACS
 ✓16490 Asclepias curassavica L. PW 17441 Serjania dasyclados Radlk. HAG
 ✓16502 Adenaria floribunda HBK PW
 ✓16503 Acalypha macrostachya Jacq. PW 17462 Hypericum strictum compactum Radlk. HAG
 ✓16506 Buddleia americana L. PW
 ✓16510 Pteris Haenkeana Pr. ACS 17490 " " " " " " HAG
 ✓16512 Rivina humilis L. PW

KILLIP AND SMITH PLANTS DETERMINED AT N.Y.B.G.

-17514	<i>Hypericum mexicanum</i> L.	HAG	✓19053	<i>Amyris Plumieri</i> DC	PW
✓17515	<i>Hypericum platyphyllum</i> Gleason	HAG	✓19063	<i>Sterculia apetala</i>	PW
✓17567	<i>Hypericum strictum compactum</i> (Tr. and Pl.) Gleason	HAG	✓19069	<i>Jasminum grandiflorum</i> L.	PW
✓17659	<i>Hypericum chamaemyrtus</i> Tr. and Pl.	HAG	✓19123	<i>Euphorbia heterophylla</i> L.	PW
✓17694	<i>Hypericum laricifolium</i> Juss.	HAG	19145	<i>Marattia Kaulfussii</i> J.Sm.	ACS
✓17781	<i>Hypericum chamaemyrtus</i> Tr. and Pl.	HAG	✓19152	<i>Meriana barbinervis</i> (Kl.) Naud	PW
✓17829	<i>Centropogon Jahnii</i> Gleason	HAG	✓19247	<i>Cyclanthera leptostachya</i>	
✓17864	<i>Oreopanax Humboldtiana</i> Dcne. and Pl.	PW		Benth.	PW
✓17887	<i>Solanum oblongifolium</i> HBK	ACS	✓19301	<i>Vernonia Lehmannii</i> Hieron.	HAG
✓17898	<i>Salvia amethystina</i> Smith	PW	✓19302	<i>Rapanea guinensis</i> Aubl.	PW
✓17901	<i>Chaetolepis alpina</i> Naud.	HAG	✓19358	<i>Biophytum dendroides</i> DC	PW
✓17962	<i>Hypericum laricifolium</i> Juss.	HAG	✓19379	<i>Pteris Haenkeana</i> Pr.	ACS
✓18053	<i>Hypericum chamaemyrtus</i> Tr. and Pl.	HAG	✓19403	<i>Chelonanthus acutangulus</i>	
				(R. and P.) Gilg.	PW
✓18099	<i>Tillandsia complanata</i> Benth.	PW	✓19533	<i>Hypericum bryoides</i> Gleason	
✓18187	<i>Hypericum Weberbauri</i> Keller	HAG		(type)	HAG
✓18199	<i>Hypericum Phellos</i> Gleason (type)	HAG	✓19534	<i>Hypericum strictum reductum</i>	
				Gleason (type)	HAG
✓18205	<i>Hypericum Weberbauri</i> Keller	HAG	✓19564	<i>Hypericum strictum compactum</i>	
✓18211	<i>Fuchsia petiolaris</i> HBK var.	PW	✓19587	<i>Hypericum Brathys</i> Lam.	HAG
✓18347	<i>Hypericum chamaemyrtus</i> Tr. and Pl.	HAG	✓19594	<i>Hypericum mexicanum</i> L.	HAG
✓18404	<i>Hypericum mexicanum</i> L.	HAG	✓19607	<i>Psilogramme hirta</i> (HBK) Kuhn	ACS
✓18502	<i>Vicia andicola</i> HBK	PW	✓19656	<i>Fuchsia hybrida</i> Voss	PW
✓18526	<i>Oxylobus glanduliferus</i> (Sch-Bip.) Gray	PW	✓19676	<i>Franseria artemisioides</i> Willd.	
✓18545	<i>Hypericum strictum compactum</i> (Tr. and Pl.) Gleason	HAG	✓19727	<i>Hypericum Phellos</i> Gleason	HAG
✓18559	<i>Hypericum platyphyllum</i> Gleason	HAG	✓19757	<i>Parsonia cordata</i> R. and P.	PW
✓18580	" " " "	HAG	✓19804	<i>Serjania dasyclados</i> Radlk.	HAG
✓18626	" " (type)	HAG	✓19879	<i>Meriana barbinervis</i> (Kl.) Naud	HAG
✓18631	<i>Hypericum bryoides</i> Gleason	HAG	✓19886	<i>Vernonia pycnantha</i> Benth.	PW
✓18711	<i>Solanum oblongifolium</i> HBK	ACS	✓19887	<i>Dicksonia Karsteniana</i> (Kl.)	
✓18716	<i>Hypericum stenopetalum</i> Turcz	HAG		Moore	ACS
✓18732	<i>Satureia Brounei</i> (Sw) Briq.	PW	✓19950	<i>Uncinia hamata</i> (Sw.) Urban	NLB
✓18734	<i>Medicago hispida</i> Gaertn.	PW	✓19990	" "	NLB
✓18735	<i>Oenothera multicaulis</i> R. and P. var. <i>tarquensis</i> (HBK) M. and J.	PW	✓20021	<i>Acnistus arboreus</i> (L) Schlect	PW
18751	<i>Pellaea ternifolia</i> (Cav) Link.	ACS	✓20056	<i>Meriana grandidens</i> Triana	HAG
✓18752	<i>Nicotiana Tabacum</i> L.	ACS	✓20065	<i>Ditassa caucana</i> Pittier	ACS
✓18756	<i>Hypericum stenopetalum</i> Turcz	HAG	✓20079	<i>Sida rhombifolia</i> L.	PW
✓18757	<i>Lippia hissuta</i> L.f.	PW	✓20129	<i>Rapanes guianensis</i>	
✓18779	<i>Vittaria stipitata</i> Kze.	ACS		guianensis	
✓18852	<i>Vernonia Lehmannii</i> Hieron.	HAG	✓20140	<i>Trichanthera gigantea</i>	
✓18891	<i>Hypericum Brathys</i> Lam.	HAG		(H. and B.) Nees.	PW
✓188923	<i>Marsypianthes Chamaedrys</i> (Vahl) Kuntze	PW	✓20143	<i>Siphocampylus obtusus</i> Wimmer	
✓18901	<i>Miconia corymbiformis</i> Cogn.	HAG	✓20154	<i>Solanum oblongifolium</i> HBK	ACS
✓18970	<i>Meriana barbinervis</i> (Kl.) Naud	HAG	✓20187	<i>Daucus montanus</i> H. and B.	PW
✓18999	<i>Meriana grandidens</i> Triana	HAG	✓20190	<i>Euphorbia heterophylla</i> L.	PW
✓19006	<i>Vernonia pacchensis</i> HBK	HAG	✓20204	<i>Satureia Brounei</i> (Sw) Briq.	PW
✓19009	<i>Rapanea guianensis</i> Aubl.	PW	✓20211	<i>Plantago hirtella</i> HBK	PW
19035	<i>Pteris Haenkeana</i> Pr.	ACS	✓20376	<i>Centropogon densiflorus</i>	
				lugens	
				Wimmer	
					HAG
			✓20384	<i>Antrophyum lineatum</i> (Sw) Klif	ACS
			✓20391	<i>Epilobium denticulatum</i> R. and P.	
				PW	

5

KILLIP AND SMITH PLANTS DETERMINED AT N.Y.B.G.

- ✓20418 *Centropogon densiflorus* HAG PW
- ✓lugens Wimmer ✓21107 *Blechum Blechum(L)Millsp.* PW
- ✓20485 *Parsonia cordata* R.and P. PW ✓21139 *Andropogon tener(Nees)Kunth* PW
- ✓20499 *Cestrum tonentosum* L. ACS ✓21167 *Hypericum caracasanum* Willd. HAG
- ✓20504 *Trichanthera gigantea(H. and B)Nees* PW
- ✓20506 *Ocimum micranthum* Willd. PW
- ✓20516 *Iresine* ~~Sehieet~~ *Celosia* L. PW
- ✓20528 *Asclepias curassavica* L. PW
- ✓20529 *Cobaea scandens* Cav. PW
- ✓20534 *Trichanthera gigantea(H. and B)* Nees PW
- ✓20554 *Siphocampylus obtusus* Wimmer HAG
- ✓20655 *Grammadenia Lehmannii* Mez. PW
- ✓20661 *Hypericum chamaemyrtus* Tr.and Pl. HAG
- ✓20662 *Hypericum Brathys* Lam. HAG
- ✓20670 *Dicksonia Karsteniana(Kl.)* Moore ACS
- ✓20680 *Hypericum chamaemyrtus* Tr.and Pl. HAG
- ✓20692 *Miconia cataractae* Triana HAG
- ✓20749 *Cupania americana* L. HAG
- ✓20751 *Scutellaria purpurascens* Sw. PW
- ✓20760 *Physalodes physalodes(L.)Britton* ACS
- ✓20761 *Meriana grandidens* Triana HAG
- ✓20764 *Euphorbia arenaria* HBK PW
- ✓20765 *Vernonia brachiata* Benth. HAG
- ✓20806 *Ionoxalis Martiana(Zucc.)* Small PW
- ✓20822 *Croton gossypifolius* Vahl PW
- ✓20824 *Cardiospermum grandiflorum* Sw. HAG
- ✓20839 *Sauvagesia erecta* L. PW
- ✓20843 *Valerianodes mutabilis(Jacq.)* Kuntze PW
- ✓20860 *Casearia sylvestris* Sw. PW
- ✓20866 *Crotalaria anagyroides* HBK PW
- ✓20884 *Cardiospermum grandiflorum* Sw. HAG
- ✓20938 *Muntingia Calabura* L. PW
- ✓20939 *Croton lobatus* L. PW
- ✓20941 *Crolalaria incana* L. PW
- ✓20943 *Bradburya virginiana(L.)Kuntze* PW
- ✓20957 *Malvastrum spicatum(L.)A.Gray* PW
- ✓20971 *Tribulus cistoides* L. PW
- ✓20981 *Melochia tomentosa* L. PW
- ✓20991 *Paullinia fuscescens* Kunth HAG
- ✓21018 *Croton ovalifolius* West PW
- ✓21025 *Zanthoxylum Fagara(L.)Sarg.* PW
- ✓21028 *Terminalia catappa* L. PW
- ✓21047 *Lawsonia inermis* L. PW
- ✓21050 *Tubiflora squamosa(Jacq.)Kuntze* PW
- ✓21064 *Cardiospermum Corindum* L. HAG
- ✓21075 *Conocarpus erecta* L. PW
- ✓21076 *Avicennia nitida* L. PW

14099	15242
14098	15237
14010	14842
14045	14792
15312	14612
15416	

KILLIP-SMITH (COLOMBIA)

- ✓14032. *Manihot pittieri* Pax & Hoffm.
- ✓14044. *Bulnesia arborea* (Jacq.) Engl.
- ✓14050. *Cissus sicyoides* L.
- ✓14066. *Commelina elegans* H. B. K.
- ✓14073. *Euphorbia (Chamaesyce) hypericifolia* L.
- ✓14081. *Euphorbia* (") " "
- ✓14107. " " *ammannioides* H. B. K.
- ✓14150. *Securidaca scandens* Jacq.
- ✓14159. *Melochia pyramidata* L.
- ✓14161. *Rauvolfia canescens* L.
- ✓14174. *Acalypha villosa* Jacq.
- ✓14221. *Euphorbia graminea* Jacq.
- ✓14238. *Lippia hemispherica* Cham.
- ✓14269. *Acalypha villosa* Jacq.
- ✓14271. *Ipomoea tiliacea* (Willd.) Choisy
- ✓14273. *Thevetia nitida* (H. B. K.) DC.
- ✓14283. *Tabernaemontana amydalifolia* Jacq.
- ✓14286. *Synedrella nodiflora* (L.) Gaertn.
- ✓14295. *Jatropha urens* L.? (juvenile).
- ✓14313. *Ocimum micranthum* Willd.
- ✓14327. *Garcia nutans* Rohr.
- ✓14332. *Acalypha villosa* Jacq.
- ✓14333. *Stemmadenia grandiflora* (Jacq.) Miers
- ✓14342. *Lippia hemispherica* Cham.
- ✓14364. *Acalypha villosa* Jacq.
- ✓14385. *Acalypha macrostachya* Jacq.
- ✓14391. *Tabernaemontana eggersii* K. Sch.
- ✓14406. *Dendropanax arboreum* (L.) Dec. & Planch.
- ✓14418. *Coccoloba uvifera* (L.) Jacq.
- ✓14426. *Malachra fasciata* Jacq.
- ✓14480. *Commelina longicaulis* Jacq.
- ✓14495. *Leptorrheo filiformis* (M. & G.) C. B. Clarke
- ✓14511. *Operculina alata* (Ham.) Urban
- ✓14534. *Capsicum fraccatum* L.
- ✓14538. *Turnera ulmifolia* L.
- ✓14551. *Porophyllum macrocephalum* DC.
- ✓14570. *Persicaria hispida* (H. B. K.) Naza.
- ✓14618. *Leonotis nepetaefolia* R. Br.
- ✓14638. *Operculina alatipes* (Hook.) House
- ✓14643. *Prestonia acutifolia* (Benth.) K. Sch.
- ✓14653. *Stemmadenia* sp. (fruit only)
- ✓14664. *Acalypha villosa* Jacq. 2sheets at g. H.
- ✓14666. *Verbesina myriocephala* Sch. Bip.?
- ✓14679. *Garcia nutans* Rohr
- ✓14682. *Thevetia nitida* (H. B. K.) DC.
- ✓14687. *Ocimum canum* Sims
- ✓14688. *Leonurus sibiricus* L.
- ✓14709. *Ipomoea sericantha* Griseb.
- ✓14732. *Costus cylindricus* Jacq.

- ✓14775. Commelina longicaulis Jacq.
✓14794. Hyptis atrorubens Poit.
✓14801. Persicaria punctata (Ell.) Small
✓14806. Hyptis verticillata Jacq.
✓14807. Bidens cynapiifolia H. B. K.
✓14885. Bixa orellana L.
14914. Eleocharis fistulosa (Poir.) Link
✓14965. Ipomoea quinquefolia L.
✓14966. Ipomoea polyanthes R. & S.
✓14980. Echites hirtella H. B. K.
✓14981. Euphorbia graminea Jacq.
✓14994. Thevetia neriiifolia Juss.
✓15009. Heliocarpus americanus L.
✓15014. Spilanthes americana (Mutis) Hieron.
✓15096. Tagetes pusilla H. B. K.
✓15117. Persicaria punctata (Ell.) Small
✓15166. Symplocos rigidissima Brand
✓15254. Gnaphalium spicatum Lam.
✓15300. Commelina longicaulis Jacq.
✓15390. Phyllanthus niuri L.
✓15404. Marshianthes chamaedrys (Vahl) Ktze.
✓15418. Verbesina aligera Blake (Type)
✓15441. " columbiana Robinson
✓15449. Euphorbia (Chamaesyce) prostrata Ait.
✓15460. Verbesina killipii Blake (Type)
✓15469. Echites hirtella H. B. K.
✓15499. Satureia brownei (Sw.) Briq.
✓15511. Ipomoea purpurea (L.) Lam.
✓15543. Siegesbeckia cordifolia H. B. K.
✓15593. Bidens trilinervia macrantha (Wedd.) Sharff
✓15597. Siegesbeckia cordifolia H. B. K.?
✓15613. Achyrocline lehmannii Hieron.
✓15615. Gnaphalium spicatum Lam.
✓15624. Acaena cylindrostachya R. & P.
✓15625. Gnaphalium graveolens H. B. K.
✓15632. Hypochaeris setosa (Wedd.) Rusby
✓15657. Achyrocline lehmannii Hieron.
✓15660. Stellaria cuspidata Willd.
✓15676. Hypochaeris setosa (Wedd.) Rusby
✓15682. Bidens triplinervia macrantha (Wedd.) Sherff
✓15693. Hypochaeris setosa (Wedd.) Rusby
✓15703. Gnaphalium graveolens H. B. K.
✓15704. Erigeron uliginosus Benth
✓15732. Vallea pubescens H. B. K.
✓15739. Stellaria cuspidata Willd.
✓15764. Vasquezia titicicensis (Mey. & Walp.) Blake?
✓15767. Stellaria cuspidata Willd.
✓15795. Sericotheca argentea (Mutis) Raf.
✓15796. Muhlenbeckia tannifolia (H. B. K.) Meissn.
✓15898. Muhlenbeckia tannifolia (H. B. K.) Meissn.
✓15938. Rhamnus humboldtiana K. & S.
✓16007. Fragaria vesca L.
✓16067. Minthostachys tomentosa (Benth.) Epl.

- 3
- ✓ 16140. *Plantago hirtella* Kunth
 - ✓ 16161. *Mandevilla* sp.
 - ✓ 16195. *Quamoclit coccinea* (L.) Moench.
 - ✓ 16308. *Prestonia acutifolia* (Benth.) K. Sch.
 - ✓ 16313. *Scutellaria purpurascens* Sw. (Det. Leonard)
 - ✓ 16316. *Ocimum micranthum* Willd.
 - ✓ 16314. *Echites trifida* Jacq.
 - ✓ 16342. *Clitoria cajanifolia* (Presl) Benth.
 - ✓ 16366. *Euphorbia graminea* Jacq.
 - ✓ 16371. *Piriqueta viscosa* Griseb.
 - ✓ 16418. *Euphorbia cotinifolia* L.
 - ✓ 16432. *Ipomoea purpurea* (L.) Lam.
 - ✓ 16436. *Evolvulus villosus* R. & P.
 - ✓ 16438. *Melanthera aspera* (Jacq.) Steud.
 - ✓ 16484. *Pavonia spinifex* Cav.
 - ✓ 16520. *Minthostachys mollis* (H. B. K.) Epl.
 - ✓ 16581. *Cardamine ovata* Benth.
 - ✓ 16603. *Sphacele bullata* (H. B. K.) Benth.
 - ✓ 16631. *Psychotria macropodantha* Standl. (Type) (Not *P. podocephala*)
 - ✓ 16669. *Fragaria vesca* L.
 - ✓ 16675. *Bidens pilosa radiata* Sch. Bip.
 - ✓ 16708. *Eleocharis stenocarpa* Svenson (Type)
 - ✓ 16714. *Rosmarinus officinalis* L.
 - ✓ 16790. *Nicandra physalodes* (L.) Pers.
 - ✓ 16791. *Minthostachys mollis* (H. B. K.) Epl.
 - ✓ 16802. *Plantago major* L.
 - ✓ 16830. *Bidens pilosa radiata* Sch. Bip. Sch
 - ✓ 16849. *Spilanthes leucantha* (Lam.) A. H. Moore
 - ✓ 16877. *Phyllanthus salviaefolius* H. B. K.
 - ✓ 16896. *Bidens squarrosa* H. B. K.
 - ✓ 16899. *Sphacele bullata* (H. B. K.) Benth.
 - ✓ 16970. *Solanum nigrum* L. var.
 - ✓ 17011. " " " "
 - ✓ 17023. *Persicaria punctata* (Ell.) Small
 - ✓ 17027. *Nasturtium officinale* R. Br.
 - ✓ 17131. *Spilanthes americana* (Mutis) Hieron.
 - ✓ 17136. *Muhlenbeckia tamnifolia* (H. B. K.) Meissn.
 - ✓ 17158. *Physalis peruviana* L.
 - ✓ 17204. *Bidens rubifolia* H. B. K.
 - ✓ 17233. *Cestrum megalochloranthum* Dunal
 - ✓ 17240. *Vallea pubescens* H. B. K.
 - ✓ 17248. *Minthostachys tomentosa* (Benth.) Epl.
 - ✓ 17254. *Sericotheca argentea* (Mutis) Raf.
 - ✓ 17263. *Cestrum megalochloranthum* Dunal
 - ✓ 17276. *Muhlenbeckia tamnifolia* (H. B. K.) Meissn.
 - ✓ 17297. *Minthostachys tomentosa* (Benth.) Epl.
 - ✓ 17310. *Sericotheca argentea* (Mutis) Raf.
 - ✓ 17326. *Vallea pubescens* H. B. K.
 - ✓ 17376. *Cardamine ovata lehmannii* var. *brachiata* O. E. Schulz

- ✓17403. *Vasquezia titicacensis* (May. & Walp.) Blake
✓17405. *Bidens triplinervia* H. B. K.
✓17416. *Rumex acetosella* L.
✓17430. *Sericotheca argentea* (Mutis) Raf.
✓17431. *Achyrocline satureioides* (Lam.) DC.
Q17460. *Loeselia glandulosa* G. Don
✓17472. *Hypochaeris setosa* (Wedd.) Rusby
✓17486. *Bidens triplinervia macrantha* (Wedd.) Sherff
A17510. *Gnaphalium lanuginosum* H. B. K.
✓17579. *Cestrum megalochloranthum* Dunal
✓18/ 175 #5. *Muhlenbeckia tammifolia* (H. B. K.) Meissn.
✓17590. *Achyrocline lehmannii* Hieron.
✓17591. *Hypochaeris setosa* (Wedd.) Rusby
✓17593. *Bidens triplinervia macrantha* (Wedd.) Sherff
✓17595. *Achyrocline lehmannii* Hieron.
✓17641. *Hypochaeris setosa* (Wedd.) Rusby
✓17674. *Bidens triplinervia macrantha* (Wedd.) Sherff
✓17681. *Hypochaeris setosa* (Wedd.) Rusby
✓17716. *Stellaria cuspidata* Willd.
✓17792. *Muhlenbeckia tammifolia* (H. B. K.) Meissn.
✓17830. *Vallea pubescens* H. B. K.
✓17878. *Vallea* " "
✓17879. *Cestrum suaveolens* Rusby?
✓17883. " " " ?
✓17933. *Muhlenbeckia tammifolia* (H. B. K.) Meissn.
✓17979. *Hypochaeris setosa* (Wedd.) Rusby
✓17980. *Bidens triplinervia macrantha* (Wedd.) Sherff
✓17995. *Phyllanthus salivaefolius* H. B. K.
✓17996. *Solanum nigrum* L. var.
✓18009. *Hyptis colombiana* Epl. (not *H. polystachya*)
✓18012. *Mandevilla* sp.
✓18026. *Silene gallica* L.
✓18065. *Muhlenbeckia tammifolia* (H. B. K.) Meissn.
✓18090. *Solanum nigrum* L. var.
Q18096. *Helimolobus hispidulus* (DC.) O. E. Schulz
✓18101. *Bidens pilosa alata* (H. B. K.) Sherff
✓18113. *Satureia brownii* (Sw.) Briq.
✓18116. *Cardamine ovata unijuga* O. E. Schulz (Type)
✓18134. *Siegesbeckia cordifolia* H. B. K.
✓18132. *Solanum nigrum* L. var.
✓18150. *Vallea pubescens* H. B. K.
✓18179. *Sericotheca argentea* (Mutis) Raf.
✓18212. *Bidens triplinervia* H. B. K.
✓18220. *Hypochaeris setosa* (Wedd.) Rusby
✓18239. *Achyrocline lehmannii* Hieron.
✓18242. *Plantago monticola angusta* Pilg.
✓18256. *Bidens triplinervia macrantha* (Wedd.) Sherff
✓18400. *Bidens triplinervia macrantha* (Wedd.) Sherff
✓18405. *Rosmarinus officinalis* L.
✓18432. *Achyrocline lehmannii* Hieron.

- ✓18445. Acaena cylindrostachya R. & P.
- ✓18456. Hypochaeris setosa (Wedd.) Rusby
- o 18459. Gnaphalium lanuginosum H. B. K.?
- ✓18477. Sericotheca argentea (Mutis) Raf.
- ✓18490. Solanum nigrum L. var.
- ✓18523. Cestrum buxifolium H. B. K.
- ✓18529. Acaena cylindrostachya R. & P.
- ✓18531. Cardamine alberti O. E. Schulz
- ✓18532. Achyrocline lehmannii Hieron.
- o ✓18548. Cardamine alberti minor O. E. Schulz
- ✓18557. Bidens triplinervia macrantha (Wedd.) Sherff.
- ✓18576. Sericotheca argentea (Mutis) Raf.
- ✓18638. Hypochaeris setosa (Wedd.) Rusby
- o ✓18647. Gnaphalium graveolens H. B. K.?
- ✓18650. Erigeron pellitus (H. B. K.) Wedd.
- o ✓18651. Plantago oreades Dcne.
- ✓18666. Bidens triplinervia macrantha (Wedd.) Sherff
- ✓18690. Stellaria recurvata H. B. K.
- ✓18730. Solanum colombianum Dunal
- ✓18731. Solanum nigrum L. var.
- ✓18732. Satureja bonplandii (Sw.) Briq.
- ✓18779. Bidens rubifolia H. B. K.
- ✓18801. Gnaphalium spicatum Lam.
- ✓18804. Stellaria cuspidata Willd.
- ✓18893. Marpianthes chamaedrys (Vahl) Ktze.
- ✓18923. Cafica candomarcensis Hook. f.
- ✓18956. Solanum nigrum L. var.
- ✓19031. Passiflora chelidonea Mast.
- ✓19086. Achyrocline satureioides (Lam.) DC.
- ✓19117. Alomia coelestina (Regel) Robinson (Det. Robinson)
- o 19196. Campelia zanonia (L.) H. B. K.
- ✓19197. Tillandsia adpressa tonduziana L. B. Smith
- ✓19361. Acalypha diversifolia Jacq.
- ✓19398. Operculina alatipes (Hook.) House
- ✓19406. Euphorbia graminea Jacq.
- ✓19409. Lepidium trianae Thell.
- 19549. Eleocharis maculosa (Vahl) R. & S.
- ✓19550. Hypochaeris sessiliflora H. B. K.
- ✓19566. " " "
- ✓19588. Gnaphalium graveolens H. B. K.
- ✓19598. Symplocos rigidissima Brand
- ✓19606. Erigeron uliginosus Benth.
- ✓19639. Stellaria cuspidata Willd.
- ✓19652. Prunus capuli Cav.
- ✓19659. Gnaphalium spicatum Lam.
- ✓19667. Tagetes graveolens L'Hér.
- o ✓19673. Nicandra physalodes (L.) Pers.
- ✓19718. Stellaria cuspidata Willd.
- ✓19725. Symplocos rigidissima Brand.
- ✓19822. Laplacea speciosa H. B. K.
- ✓19828. Stellaria cuspidata Willd.
- ✓19850. Symplocos rigidissima Brand

DETERMINATIONS OF KILLIP-SMITH COLOMBIAN COLLECTION
(U. S. National Museum, March 29, 1928.)

- ✓14048. *Panicum trichoides* Sw.
✓14051. " *fasciculatum* Sw.
✓14074. " " "
✓14082. *Lasiacis ruscifolia* (H. B. K.) Hitchc.
✓14096. *Cenchrus insularis* Scribn.
✓14097. *Eragrostis prolifera* (Sw.) Steud.
✓14103. " " " "
✓14119. *Cenchrus echinatus* L.
✓14121. *Aristida ternipes* Cav.
✓14122. *Eragrostis ciliaris* (L.) Link
✓14126. *Lasiacis ruscifolia* (H. B. K.) Hitchc.
✓14136. *Chloris polydactyla* (L.) Sw.
✓14179. *Panicum trichoides* Sw.
✓14184. " *reptans* L.
✓14190. *Syntherisma sanguinalis* (L.) Dulac
✓14203. *Bouteloua americana* (L.) Scribn.
✓14214. *Panicum maximum* Jacq.
✗14294. " *zizanioides* H. B. K.
✓14305. *Guadia latifolia* (H. & B.) Kunth
✓14308. *Dactyloctenium aegyptium* (L.) Richt.
✓14309. *Eleusine indica* (L.) Gaertn.
✓14357. *Panicum trichoides* Sw.
✓14367. *Paspalum inconstans* Chase
✓14408. *Panicum trichoides* Sw.
✓14409. *Melius minutiflora* Beauv.
✓14473. *Pharus latifolius* L.
✓14513. *Lasiacis ruscifolia* (H. B. K.) Hitchc.
✓14556. *Oryza sativa* L.
✓14558. *Panicum barbinode* Trin.
○✓14567. " *elephantipes* Nees
○✓14568. *Paspalum repens* Berg.
✓14569. *Luziola spruceana* Benth.
✓14579. *Panicum barbinode* Trin.
✓14604. *Eragrostis hypnoides* (Lam.) B. S. P.
✓14606. *Leptochloa domingensis* (Jacq.) Trin.
✓14639. *Chloris polydactyla* (L.) Sw.
✓14640. *Panicum barbinode* Trin.
✓14642. *Manisuris exaltata* (L. f.) Kuntze
✓14681. *Lasiacis sorghoidea* (Desv.) H. & C.
✓14717. *Isocarpha atriplicifolia* (L.) R. Br.
✓14718. *Panicum geminatum* Forsk.
●14740. *Panicum pilosum* Sw.
✓14744. " *zizanioides* H. B. K.
✓14747. " *pilosum* Sw.
✓14753. *Paspalum conjugatum* Berg
✓14780. " *virgatum* L.

- ✓14785. *Hymenachne amplexicaulis* (Ridge) Nees
✓14786. *Panicum grande* H. & C.
✓14813. *Homolepis aturensis* (H. B. K.) Chase
✓14825. *Eragrostis maypurensis* (H. B. K.) Steud.
✓14850. *Melinis minutiflora* Beauv.
✓14859. *Panicum rudgei* R. & S.
✓14899. *Anthephora hermaphrodita* (L.) Kuntze
○14952. *Lasiacis sorghoidea* (Desv.) H. & C.
✓14992. " " " "
✓15025. *Paspalum paniculatum* L.
✗15040. *Andropogon fastigiatus* Sw.
✓15043. *Echinolaena inflexa* (Poir.) Chase.
✓15056. *Siparuna macrophylla* (H. B. K.) A. DC.
○15102. *Eriochrysis cayennensis* Beauv.
✓15106. *Panicum viscidellum* Scribn.
○15112. *Paspalum pilosum* Lam.
✓15143. " *inconstans* Chase
✓15167. *Andropogon leucostachyus* H. B. K.
✓15176. *Axonopus compressus* (Sw.) Beauv.
✓15178. *Panicum laxum* Sw.
✓15192. *Aristida capillacea* Lam.
✓15193. *Panicum*
✓15218. *Ichnanthus verticillatus* Mez
✓15230. *Andropogon hypogynus* Mack.
✗15234. *Aristida capillacea* Lam.
✓15236. *Paspalum multicaule* Poir.
○15238. *Panicum olyroides* H. B. K.
○15241. *Eragrostis inconstans* Chase
✓15249. *Andropogon virgatus* Desv.
✗15307. *Axonopus aureus* Beauv.
✓15346. *Panicum pulchellum* Raddi
✓15382. *Oplismenus hirtellus* (L.) Beauv.
✓15383. *Lasiacis sloanei* (Griseb.) Hitchc.
✓15385. *Ichnanthus*
✓15487. *Pennisetum bambusiforme* (Fourn.) Hemsl.
✓15494. *Paspalum seabrum* Scribn.
✓15539. *Muhlenbergia diversiglumis* Trin.
✓15573. *Paspalum paniculatum* L.
✓15588. *Cinna poaeomorphis* (H. B. K.) Scribn.
○15589. *Bromus pitensis* Kunth
✓15591. *Agrostis breviculmis* Hitchc.
✓15595. *Cardamine alberti* O. E. Schulz. n. sp.
✓15596. " *killipii* O. E. Schulz, n. sp.
✓15618. *Aciachne pulvinata* Benth.
○✓15633. *Agrostis perennans* (Walt.) Tuckerm.
✓15634. " *trichodes* (H. B. K.) R. & S.
✓15635. *Poa paradoana* Pilger
✓15643. *Paspalum hirtum* H. B. K.
— 15648. *Brassica integrifolia* (West) O. E. Schulz

- ✓ 15656. *Calamagrostis effusa* Steud.
✓ 15667. *Plantago monticola angusta* Pilg.
✓ 15686. *Cortaderia nitida* (H. B. K.) Pilger
✓ 15757. *Paspalum hirtum* H. B. K.
✓ 15769. *Paspalum trianae* Pilger
✓ 15770. *Agrostis trichodes* (H. B. K.) R. & S.
✓ 15772. *Poa annua* L.
✓ 15773. *Stipa mexicana* Hitchc.
✓ 15787. *Calamagrostis pittieri* Hack.
✓ 15827. *Achyrocline crassipes* Blake (previously reported as 15828 by error)
✓ 15828. *Cortaderia nitida* (H. B. K.) Pilger
✓ 15830. *Neurolepis*
✓ 15835. *Cortaderia nitida* (H. B. K.) Pilger
✓ 15932. *Arthrostylidium racemiflorum* Steud.
✓ 16061. *Agrostis perennans* (Walt.) Tuckerm.
✓ 16086. *Dactylis glomerata* L.
✓ 16192. *Paspalum trachycoleon* Steud.
✓ 16211. *Lasiacis sorghoidea* (Desv.) H. & C.
✓ 16235. *Pennisetum occidentale* Chase
✓ 16277. *Andropogon fastigiatus* Sw.
✓ 16279. *Tripsacum dactyloides* L.
✓ 16302. *Lasiacis sorghoidea* (Desv.) H. & C.
✓ 16374. *Eriochloa punctata* (L.) Hamilt.
✓ 16454. *Simsia pubescens* Triana
✓ 16476. *Lasiacis ruscifolia* (H. B. K.) Hitchc.
✓ 16496. *Paspalum notatum* Flügge
✓ 16554. *Lasiacis divaricata* (L.) Hitchc.
✓ 16611. *Siparuna macrophylla* (H. B. K.) A. DC.
✓ 16673. *Oplismenus hirtellus* (L.) Beauv.
✓ 16692. *Radicula nasturtium-aquaticum* (L.) Britten & Rendle
✓ 16736. *Aegopogon cenchroides* H. & B.
✓ 16774. *Muhlenbergia microsperma* (DC.) Kunth.
✓ 16794. *Lasiacis sorghoidea* (Desv.) H. & C.
✓ 16799. *Holcus sorghum* L.
✓ 16835. *Pennisetum bambusiforme* (Fourn.) Hemsl.
✓ 16845. *Muhlenbergia implicata* Trin.
✓ 16846. *Eragrostis pastoensis* (H. B. K.) Trin.
✓ 16847. *Syntherisma sanguinalis* (L.) Dulac
✓ 16848. *Andropogon saccharoides* Sw.
✓ 16864. *Chaetochloa geniculata* (Lam.) M. & C.
✓ 16876. *Neliniis minutiflora* Beauv.
✓ 16881. *Oplismenus hirtellus* (L.) Beauv.
✓ 16936. *Paspalum prostratum* S. & M.
✓ 16940. *Agrostis perennans* (Walt.) Tuckerm.
✓ 16954. *Polypogon lutosus* (Poir.) Hitchc.
✓ 16966. *Bromus unioloides* (Willd.) H. B. K.
✓ 16969. *Paspalum scabrum* Scribn.
✓ 16988. *Polypogon lutosus* (Poir.) Hitchc.

- ✓17013. Lasiacis scabrior Hitchc.
- ✓17018. Paspalum candidum (H. & B.) Kunth
- ✓17022. Pennisetum bambusiforme (Fourn.)
- ✓17060. Verbesina humboldtii Spreng.
- ✓17125. Aegopogon cenchroides H. & B.
- ✓17139. Cortaderia nitida (H. B. K.) Pilger
- ✓17153. Festuca megalura Nutt.
- ✓17155. Polypogon lutosus (Poir.) Hitchc.
- ✓17211. Aegopogon cenchroides H. & B.
- ✓17256. Agrostis perennans (Walt.) Tuckerm.
- ✓17288. Aegopogon cenchroides H. & B.
- ✓17292. Paspalum trianae Pilger
- ✓17293. Brachypodium mexicanum (R. & S.) Link
- ✓17294. Stipa mexicana Hitchc.
- ✓17299. Agrostis perennans (Walt.) Tuckerm.
- ✓17329. Festuca dolichophylla Presl
- ✓17354. Halimolobus hispidulus longistylis (Tr. & Pl.) O. E. Schulz
- ✓17359. Poa annua L.
- ✓17385. Stipa mucronata H. B. K.
- ✓17407. Triniochloa stipeoides (H. B. K.) Hitchc.
- ✓17413. Plantago monticola angusta Pilg.
- ✓17415. Stipa mexicana Hitchc.
- ✓17465. Plantago monticola angusta Pilg.
- ✓17466. Calamagrostis densiflora (Presl) Steud.
- ✓17467. Cortaderia sericantha (Steud.) Hitchc.
- ✓17468. Calamagrostis effusa Steud.
- ✓17469. Agrostis haenkeana Hitchc.
- ✓17470. Muhlenbergia
- ✓17478. Calamagrostis densiflora (Presl) Steud.
- ✓17479. " effusa Steud.
- ✓17480. Agrostis haenkeana Hitchc.
- ✓17481. " breviculmis Hitchc.
- ✓17482. Aciachne pulvinata Benth.
- ✓17489. Agrostis trichodes (H. B. K.) R. & S.
- ✓17500. Loricaria complanata (Sch. Bip.) Wedd.
- ✓17540. Werneria pygmaea Gill.
- ✓17551. Agrostis breviculmis Hitchc.
- ✓17570. Plantago monticola angusta Pilg.
- ✓17573. " breviculmis Hitchc.
- ✓17574. Poa paradoana Pilger
- ✓17588. Calamagrostis effusa Steud.
- ✓17594. Plantago monticola angusta Pilg.
- ✓17617. Phleum alpinum L.
- ✓17618. Calamagrostis densiflora (Presl) Steud.
- ✓17619. Cortaderia nitida (H. B. K.) Pilger
- ✓17620. Werneria pygmaea Gill.
- ✓17630. Plantago linearis enlinearis Pilg.
- ✓17648. Muhlenbergia ligularis (Hack.) Hitchc.
- ✓17653. Stipa mexicana Hitchc.
- ✓17678. Paspalum hirtum H. B. K.
- ✓17679. Alopecurus aequalis Sabal
- ✓17680. Agrostis breviculmis Hitchc.

- ✓ 17690. *Lasiacis scabrior* Hitchc.
✓ 17766. *Cardamine alberti minor* O. E. Schulz, n. sp.
✓ 17864. *Calamagrostis pittieri* Hack.
✓ 17917. *Polypogon lutosus* (Poir.) Hitchc.
✓ 17939. *Poa pardoana* Pilger
✓ 17960. *Stipa mexicana* Hitchc.
✓ 17963. *Cortaderia nitida* (H. B. K.) Pilger
✓ 17966. *Chusquea spicata* Munro
✓ 17978. *Aciachne pulvinata* Benth.
✓ 17992. *Aegopogon cenchroides* H. & B.
✓ 18005. *Chusquea*
✓ 18006. *Melica scabra* H. B. K.
✓ 18024. *Paspalum prostratum* S. & H.
✓ 18044. *Stipa ichu* (R. & P.) Kunth
✓ 18081. *Lepidium bipinnatifidum* Desv.
✓ 18094. *Bromus unioloides* H. B. K.
✓ 18105. *Arthrostylidium racemiflorum* Steud.
✓ 18145. *Siparuna echinata* (H. B. K.) A. DC.
✓ 18216. *Stipa mexicana* Hitchc.
✓ 18218. *Aciachne pulvinata* Benth.
✓ 18236. *Sporobolus lasiophyllus* Pilger
✓ 18238. *Trisetum scabriflorum* Hitchc.
✓ 18248. *Calamagrostis pittieri* Hack.
✓ 18286. *Polypogon lutosus* (Poir.) Hitchc.
✓ 18302. *Ischaemum latifolium* (Spreng.) Kunth.
✓ 18386. *Paspalum trianae* Pilger
✓ 18395. *Torresia rodolens* (Forst.) R. & S.
✓ 18402. *Werneria pygmaea* Gill.
✓ 18410. *Agrostis breviculmis* Hitchc.
✓ 18416. *Stipa mexicana* Hitchc.
✓ 18424. *Plantago monticola angusta* Pilger
✓ 18431. *Calamagrostis bogotensis* Pilger
✓ 18436. *Agrostis trichodes* (H. B. K.) R. & S.
✓ 18448. *Aciachne pulvinata* Benth.
✓ 18451. *Stipa mexicana* Hitchc.
✓ 18458. *Poa pardoana* Pilger
✓ 18461. *Calamagrostis effusa* Steud.
✓ 18479. *Festuca sublimis* Pilger
✓ 18487. *Paspalum scabrum* Scribn.
✓ 18543. *Agrostis breviculmis* Hitchc.
✓ 18553. *Plantago monticola angusta* Pilger
✓ 18558. *Agrostis araucana* Phil.
✓ 18560. " *tolucensis* H. B. K.
✓ 18566. *Cardamine alberti* O. E. Schulz
✓ 18571. *Plantago oreades* Dcne.
✓ 18637. *Chusquea spicata* Munro
✓ 18643. *Werneria pygmaea* Gill.
✓ 18649. *Danthonia secundiflora* Presl
✓ 18654. *Plantago linearis agrostophylla* (Dcne.) Pilger
✓ 18679. *Chusquea spicata* Munro
✓ 18747. *Stipa mucronata* H. B. K.

- ✓ 18792. *Poa annua* L.
✓ 18822. *Polypogon lutosus* (Poir.) Hitchc.
✓ 18886. *Andropogon macrothrix* Trin.?
✓ 18952. *Polypogon elongatus* H. B. K.
✓ 19010. *Isachne rigens* (Sw.) Trin.
✓ 19013. " *undinacea* (Sw.) Griseb.
✓ 19038. *Paspalum trachycoleon* Steud.
✓ 19085. *Andropogon bicornis* L.
✓ 19109. *Chaetochloa geniculata* (Lam.) M. & C.
✓ 19127. *Pennisetum bambusiforme* (Fourn.) Hemsl.
✓ 19251. *Radicula nasturtium-aquaticum* (L.) Britton & Rendle
✓ 19252. *Oplismenus hirtellus* (L.) Beauv.
✓ 19411. *Lasiacis sloanei* (Griseb.) Hitchc.
✓ 19463. *Isachne rigens* (Sw.) Trin.
✓ 19471. *Oplismenus hirtellus* (L.) Beauv.
✓ 19578. *Stipa mexicana* Hitchc.
✓ 19579. *Paspalum trianae* Pilger
✓ 19640. *Halimolobus hispidulus* (DC.) O. E. Schulz
✓ 19678. *Torresia redolens* (Forst.) R. & S.
✓ 19704. *Cardamine ovata bracteata* O. E. Schulz
✓ 19719. *Festuca presliana* (Presl) Hitchc.
✓ 19730. *Paspalum trianae* Pilger
✓ 19760. *Aegopogon cenchroides* H. & B.
✓ 19770. *Paspalum humboldtianum* Flügge
✓ 19771. *Andropogon saccharoides* Sw.
✓ 19782. *Eragrostis pastoensis* (H. B. K.) Trin.
✓ 19784. *Pennisetum bambusiforme* (Fourn.) Trin.
✓ 19812. *Panicum vicidellum* Scribn.
✓ 19813. *Chaetochloa geniculata* (Lam.) M. & C.
✓ 19895. *Polypogon lutosus* (Poir.) Hitchc.
✓ 19901. *Chusquea serrulata* Pilger
○ 19986. *Bromus unioloides* (Willd.) H. B. K.
✓ 20046. *Panicum vicidellum* Scribn.
✓ 20071. *Zeugites mexicana* (Kunth) Trin.
✓ 20160. *Poa annua* L.
✓ 20211. *Plantago hirtella* H. B. K.
✓ 20371. *Cardamine alberti* O. E. Schulz
✓ 20503. *Lasiacis sloanei* (Griseb.) Hitchc.
○ 20544. *Panicum vicidellum* Scribn.
✓ 20641. *Agrostis perennans* ("alt.") Tuckerm.
✓ 20665. *Paspalum hirtum* H. B. K.
✓ 20699. *Neurolepis*
✓ 20702. *Chusquea serrulata* Pilger
✓ 20755. *Eragrostis mexicana* (T. & G.) Link
○ 20756. *Polypogon elongatus* H. B. K.
✓ 20757. " *lutosus* (Poir.) Hitchc.
○ 20793. *Pseuechinolaena polystachya* (H. B. K.) Stapf.
✓ 20802. *Panicum trichoides* Sw.
✓ 20810. *Paspalum scabrum* Scribn.
✓ 20825. *Pennisetum bambusiforme* (Fourn.) Hemsl.

- ✓ 20901. *Lasiacis sorghoidea* (Desv.) H. & C.
- ✓ 20965. *Paspalum fimbriatum* H. B. K.
- ✓ 20984. *Chaetochloa geniculata* (Lam.) M. & C.
- ✓ 20985. *Valota saccharata* (Buckl.) Chase
- ✓ 20986. *Chloris polydactyla* (L.) Sw
- ✓ 21029. *Paspalum barclayi* Chase.
- ✓ 21036. *Eragrostis ciliariæ* (L.) Link
- ✓ 21072. *Sporobolus argutus* (Nees) Kunth
- ✓ 21117. *Agrostis nigritella* Pilger
- ✓ 21139. *Andropogon tener* (Nees) Kunth
- ✓ 21148. *Stipa mexicana* Hitchc.
- ✓ 21183. *Sonchus oleraceus* L.
- ✓ 21194. *Chaetium festucoides* Nees
- ✓ 21199. *Echinolaena inflexa* (Poir.) Chase
- 21223. *Agrostis perennans* (Vahl.) Tuckerm.
- 21225. *Chaetochloa geniculata* (Lam.) M. & C.
- 21226. *Eragrostis urbanianum* Hitchc.

The grasses are determined by A. S. Hitchcock and Mrs. Agnes Chase;
the Compositae by S. F. Blake; Plantago by Dr. R. Pilger; Cruciferae,
by O. E. Schulz, and Siparuna by Mr. ~~Max~~ Perkins.

Determined by B. L. Robinson

April 5, 1928.

- 14443 *Mikania micrantha* HBK.
14492 *Eupatorium odoratum* L., var. *pauciflorum* Hieron.
14572 *Mikania micrantha* HBK., " *congesta* (DC.) Robinson
14710 " " " " " "
14803 *Eupatorium odoratum* L., " *pauciflorum* Hieron.
15687 " *ornatilobum* Robinson, n. sp.
14694 " *odoratum* L.
14699 " "
14768 *Mikania micrantha* HBK.
14882 *Eupatorium odoratum* L.
14953 " "
14967 " *Albertosmithii* Robinson, n. sp.
15085 *Ageratum conyzoides* L.
15118 *Mikania Smithii* Robinson
15174 " *antioquiensis* Hieron
15188 *Eupatorium arbutifolium* Benth., var. *sublaeve* Robinson
15189 *Ageratum conyzoides* L., f. *album* (Willd.) Robinson
15198 *Eupatorium iridolepis* Robinson
15200 *Mikania Smithii* Robinson, n. sp.
15201 *Eupatorium arbutifolium* Benth., var. *sublaeve* Robinson
15226 " *ballotaefolium* HBK., var. *caucense* Robinson
15245 *Mikania Ruiziana* Poepp.
15384 *Eupatorium pellum* Klatt
15414 *Trichogonia rhadinocarpa* Robinson
15429 *Mikania Smithii* Robinson
15476 *Eupatorium subscandens* Hieron.
15527 *Stevia rhombifolia* HBK.
15677 *Eupatorium gracile* HBK.
15687 " *ornatilobum* Robinson, n. sp.
15689 " *subellipticum* Robinson
15702 " *gracile* HBK.
15763 *Stevia lucida* Lag.
15744 *Eupatorium cirratilobum* Robinson
15776 " *oceanense* Robinson
15841 " *tinifolium* HBK.
15660 " *articulatum* Sch.-Bip.
15869 *Mikania Lehmanni* Hieron.
15933 *Eupatorium Steetzii* Robinson, var. *columbiense* Robinson, var. nov.
15977 *Mikania aristei* Robinson
16011 " *flabellata* Rusby
16066 *Eupatorium scabrum* L. f.
16113 " " "
16117 *Ageratum conyzoides* L., f. *album* (Willd.) Robinson
16127 *Mikania Houstoniana* (L.) Robinson, var. *santandrensis* Robinson
16164 *Eupatorium inulaefolium* HBK.
16166 *Mikania nigropunctulata* Hieron., var. *cryptodonta* Robinson
16171 *Eupatorium pellum* Klatt
16180 " *odoratum* L.
16228 " " "
16244 " " "
16280 " *iridolepis* Robinson
16290 *Mikania cordifolia* (L. f.) Willd.
16310 *Eupatorium morifolium* Mill.
16322 " *lebrignse* Robinson, n. sp.
16363 " *subscandens* Hieron.
16409 " *pycnocephalum* Less., var. *caucanum* Robinson

- 16468 *Eupatorium suratense* Robinson, v. *aphanostictum* Robinson, var.nov.
 16469 " *solidaginoides* HBK.
 16487 " "
 16494 " *subscandens* Hieron.
 16495 *Mikania micrantha* HBK.
 16533 *Eupatorium suratense* Robinson, n. sp.
 16550 " *perglabrum* Robinson, n. sp.
 16593 " *ibaguense* Sch.-Bip.
 16657 " *leucolithogenum* Robinson
 16668 " *psilodorum* Robinson
 16690 " *pycnocephalum* Less.
 16691 " *heteroneurum* (Ernst) Robinson
 16705 " *scabrum* L. f.
 16717 " *inulaefolium* HBK., f. *suaveolens* (HBK.) Hieron.
 16723 " *macrophyllum* L.
 16727 *Mikania Houstoniana*(L.) Robinson, v. *santandrensis* Rob., f. *apodocephala* Robinson, f. *nova*
- 16824 *Eupatorium porifolium* Mill.
 16866 *Stevia lucida* Lag.
 16883 *Eupatorium stoechadifolium* L. f.
 16905 " *gracile* HBK., var. *epilobioides* (HBK.) Robinson
 16929 " *perglabrum* Robinson
 16961 " *ibaguense* Sch.-Bip.
 17052 " *inulaefolium* HBK.
 17101 " *macrophyllum* L.
 17129 " *arbutifolium* Benth., var. *sublaeve* Robinson
 17130 " *gracile* HBK., var. *epilobioides* (HBK.) Robinson
 17157 " *scabrum* L. f.
- 17171 *Stevia lucida* Lag.
 17184 *Eupatorium scabrum* L. f.
 17203 " *glyptophlebium* Robinson
 17205 " *gracile* HBK., var. *epilobioides* (HBK.) Robinson
 17216 " *glyptophlebium* Robinson
 17230 " *baccaroides* HBK., var. *araneotectum* Robinson, n.var.
 17231 " *tinifolium* HBK.
 17243 " *stoechadifolium* L. f.
- 17247 *Stevia lucida* Lag.
 17264 *Eupatorium tinifolium* HBK.
 17269 *Stevia pallida* (Sch.-Bip.) Hieron.
 17321 *Stevia lucida* Lag.
 17379 *Eupatorium pycnocephaloides* Robinson
 17398 *Stevia pallida* (Sch.-Bip.) Hieron.
 17429 *Eupatorium gracile* HBK.
 17488 " " "
 17519 *Oxylobus glanduliferus* (Sch.-Bip) Gray, f. *coloratus* Robinson, f.nov.
 17552 *Eupatorium gracile* HBK.
 17583 " *crassiceps* Robinson, n. sp.
 17598 " *gracile* HBK.
 17602 *Oxylobus glanduliferus* (Sch.-Bip.) Gray
 17606 *Eupatorium ornatilobum* Robinson
 17693 " *gracile* HBK.
 17700 " *fastigiatum* HBK.
 17715 " *baccharoides*, v. *araneotectum* × *crassiceps* Robinson
 17720 " *ornatilobum* Robinson
 17740 " "
 17769 " *flavisetum* Robinson, var. *asetosum* Robinson, n. var.
 17808 " *oceanense* Robinson
 17856 " *Apollinairei* Robinson

- 17888 *Eupatorium tinifolium* HBK.
 17903 *Stevia lucida* Lag.
 17908 " *pallida* (Sch.-Bip.) Hieron.
 17919 *Eupatorium tinifolium* HBK.
 18047 " *glyptophlebium* Robinson
 18129 *Mikania Houstoniana* (L.) Robinson, var. *santandrensis* Robinson
 18138 *Eupatorium macrophyllum* L.
 18160 " *gracile* HBK., var. *epilobioides* (HBK.) Robinson
 18182 " *glyptophlebium* Robinson
 18184 " *stoechadifolium* L. f.
 18190 " *humile* (Benth.) Hieron. f. *caeruleum* Robinson
 18193 *Stevia lucida* Lag.
 18231 *Eupatorium gracile* HBK.
 18235 " *humile* (Benth.) Hieron.
 18288 " *arbutifolium* Benth., var. *sublaeve* Robinson
 18290 *Mikania Houstoniana* (L.) Robinson, var. *santandrensis* Rob., var. nov.
 18317 *Eupatorium pycnocephalum* Less.
 18356 " *macrophyllum* L.
 18393 *Stevia lucida* Lag.
 18421 *Eupatorium glyptophlebium* Robinson
 18450 " "
 18460 " *gracile* HBK.
 18524 " *tinifolium* HBK.
 18526 *Oxylobus glanduliferus* (Sch.-Bip.) Gray
 18534 *Eupatorium crassiceps* Robinson
 18564 " *humile* (Benth.) Hieron., f. *caeruleum* Robinson, forma nov.
 18655 " *mutisiiense* Robinson
 18663 " *gracile* HBK.
 18664 " *humile* (Benth.) Hieron., f. *caeruleum* Robinson
 18717 " *stoechadifolium* L. f.
 18718 " *gracile* HBK., var. *epilobioides* (HBK.) Robinson
 18749 " *pycnocephalum* Less.
 18796 " *columbianum* Heer, var. *umbratile* Robinson
 18812 " *Apollinairei* Robinson
 18814 " *columbianum* Heer, var. *umbratile* Robinson
 18861 " *perglabrum* Robinson
 18867 " *psilodorum* Robinson
 18870 " *arbutifolium* Benth., var. *sublaeve* Robinson
 18871 " " " " " " , n. var.
 18906 " " " " " "
 18912 " *ibaguense* Sch.-Bip.
 18918 " *perglabrum* Robinson
 18947 *Mikania Lehmanni* Hieron.
 19003 " *clematiflora* Rusby
 19029 *Eupatorium ibaguense* Sch.-Bip.
 19041 " *morifolium* Mill.
 19082 " *glyptophlebium* Robinson
 19107 " *ibaguense* Sch.-Bip.
 19116 " *pycnocephalum* Less.
 19118 *Mikania micrantha* HBK.
 19144 *Eupatorium macrophyllum* L.
 19222 " *odoratum* L., var. *mallotophyllum* Robinson
 19237 " *perglabrum* Robinson
 19281 " *leucolithogenum* Robinson, n. sp.
 19414 " *pycnocephalum* Less., var. *caucanum* Robinson
 19469 *Mikania Gonzalezii* Robinson & Greenman
 19485 *Eupatorium ibaguense* Sch.-Bip.
 19535 " *bullatum* Klatt
 19542 " *pycnocephalum* Less.

- 19604 *Eupatorium columbianum* Heer.
 19620 " *articulatum* Sch.-Bip.
 19634 " *tinifolium* HBK.
 19699 " *subellipticum* Robinson
 19731 " *humile* (Benth.) Hieron., f. *erubescens* Robinson, *forma nova*
 19739 " *mutiscuense* Robinson, sp. nov.
 19778 *Stevia lucida* Lag.
 19795 *Eupatorium stoechadifolium* L. f., var. *pamplonense* Robinson, *var. nov.*
 19799 " *neriifolium* Robinson
 19803 " *odoratum* L.
 19811 " *ibaguense* Sch.-Bip.
 19840 *Mikania Stuebelii* Hieron.
 19844 *Eupatorium theaefolium* Benth.
 19845 " *glyptophlebium* Robinson
 19880 " *tinifolium* HBK.
 19913 " *glyptophlebium* Robinson
 19961 *Mikania Houstoniana* (L.) Robinson, var. *sahtandrensis* Robinson
 19963 " *clematiflora* Rusby
 20052 " *Ruiziana* Poepp.
 20120 " *cordifolia* (L. f.) Willd.
 20133 *Eupatorium odoratum* L.
 20139 *Stevia rhombifolia* HBK., var. *stephanocoma* Sch.-Bip.
 20169 *Eupatorium odoratum* L.
 20206 *Mikania globifera* Rusby
 20243 *Eupatorium mesorecpulum* Robinson
 20328 *Mikania cordifolia* (L. f.) Willd.
 20329 " " "
 20364 *Eupatorium macrophyllum* L.
 20435 " *heteroneurum* (Ernst) Robinson
 20551 *Mikania cordifolia* (L. f.) Willd.
 20564 " *pachydictya* Robinson, sp. nov.
 20599 *Eupatorium arbutifolium* Benth.
 20602 " *theaefolium* Benth.
 20604 *Mikania* sp. nov. ? (Material inadequate)
 20612 *Eupatorium glyptophlebium* Robinson
 20616 " *theaefolium* Benth.
 20656 " *glyptophlebium* Robinson
 20745 *Stevia elatior* HBK.
 20833 *Eupatorium pellum* Klatt
 20844 " *fridolepis* Robinson
 20883 " *Vargasianum* DC.
 20907 " *iresinoides* HBK.
 20952 " *trinitense* (O. Ktze.) Rusby & Rob.
 20960 *Ageratum conyzoides* L., var. *inaequipaleaceum* Hieron
 21154 *Eupatorium odoratum* L.

 20372 *Mikania miconoides* Robinson
 20962 " *micrantha* HBK.

Determined at the Gray Herbarium by I. M. Johnston

- 14058 *Heliotropium angiospermum* Murray
 14219 " *indicum* L.
 15583 *Myosotis azorica* H. C. Wats. 15228 *Heliotropium salicoides* Cham.
 15610 *Fuchsia petiolaris* HBK., var.
 15734 " " "
 16039 "
 16485 *Oenothera tetraptera* Cav.
 16604 *Fuchsia Killipii* Johnston
 16695 " " " n. sp. Type
 16738 *Oenothera multicaulis* R. & P., var. *tarquensis* (HBK.) M. & J.
 16776 *Fuchsia Killipii* Johnston
 16873 *Oenothera multicaulis* R. & P., var. *tarquensis* (HBK.) M. & J.
 16958 *Lithospermum mediale* Johnston
 17236 *Fuchsia petiolaris* HBK., var.
 17300 " " "
 17304 *Hackelia revoluta* (R. & P.) Johnston
 17335 *Fuchsia petiolaris* HBK., var.
 17344 *Hackelia revoluta* (R. & P.) Johnston
 17355 *Lithospermum mediale* Johnston
 17361 *Fuchsia petiolaris* HBK., var.
 17386 " " "
 17437 *Heliotropium arborescens* L.
 17459 *Fuchsia Killipii* Johnston
 17696 *Hackelia revoluta* (R. & P.) Johnston
 17705 *Borago officinalis* L.
 17755 *Fuchsia petiolaris* HBK., var.
 17771 " " "
 17873 *Oenothera multicaulis* R. & P., var. *tarquensis* M. & J.
 17874 *Borago officinalis* L.
 18140 *Hackelia revoluta* (R. & P.) Johnston
 18211 *Fuchsia petiolaris* HBK., var.
 18279 *Oenothera multicaulis* R. & P., var. *tarquensis* (HBK.) M. & J.
 18577 *Fuchsia petiolaris* HBK., var.
 18735 *Oenothera multicaulis* R. & P., var. *tarquensis* (HBK.) M. & J.
 18854 *Fuchsia Killipii* Johnston
 19511 *Lithospermum mediale* Johnston
 19599 *Fuchsia petiolaris* HBK., var.
 19647 *Lithospermum mediale* Johnston
 19668 *Borago officinalis* L.
 19680 *Myosotis azorica* H. C. Wats.
 19734 *Fuchsia petiolaris* HBK., var.
 19831 " *perbrevis* Johnston
 19976 " " "
 20714 " *petiolaris* HBK., var.
 20958 *Heliotropium angiospermum* Murray
 21052 " *ternatum* Vahl
 21060 " *angiospermum* Murray
 21121 *Fuchsia petiolaris* HBK., var.

Determined by Mr. C. A. Weatherby

- 15639 *Luzula racemosa* Desv., var. *humilis* (Buchen.) Castillon
 17576 *Distichia tolimensis* (Dene.) Buchen.

Plants of Colombia collected by Killip & Smith, 1927.

Determined at the Gray Herbarium by L. B. Smith

14118	<i>Tillandsia aloifolia</i> Hook.
14222	" " "
14261	" " "
14529	" " "
14530	" <i>subimbricata</i> Bak.
15207	" <i>paniculata</i> Ch. & Schdl., var. <i>Fendleri</i> (Gris.) Mez
15843	" <i>aurantiaca</i> Gris.
15930	" <i>complanata</i> Benth.
16348	" <i>usneoides</i> L.
16391	" <i>recurvata</i> L.
16394	" <i>polystachya</i> L.
17207	" <i>aurantiaca</i> Gris.
17776	" <i>Turneri</i> Bak.
18099	" <i>complanata</i> Benth.
18269	" <i>aurantiaca</i> Gris.
18782	" <i>complanata</i> Benth.
19767	" <i>incarnata</i> HBK.
19916	" <i>complanata</i> Benth.
19959	" <i>aurantiaca</i> Griseb.
20075	" <i>paniculata</i> Ch. & Schdl., var. <i>Fendleri</i> (Gris.) Mez
20101	" <i>complanata</i> Benth.
20121	" <i>usneoides</i> L.
20122	" <i>recurvata</i> L.
20177	" <i>tequendamae</i> André
20523	" <i>temuiscica</i> André
20650	" <i>complanata</i> Benth.
21098	" <i>aloifolia</i> Hook.

Hitchcock

17636	<i>Tillandsia monadelpha</i> Bak.
21105	" <i>disticha</i> HBK.
21218	" <i>secunda</i> HBK.
21219	" <i>triglochinoides</i> Presl
21222	" <i>junccea</i> LeC.
21246	" <i>triglochinoides</i> Presl
21360	" <i>floribunda</i> HBK.
21906	" <i>arpocalyx</i> André

Killip & Smith Plants. Additional determinations by Mr. Weatherby.

16709	<i>Juncus bogotensis</i> HBK.
18483	" <i>Andreamus</i> Weatherby, n. sp. ined.
18627	" <i>involucratus</i> Steud.
18904	" <i>bogotensis</i> HBK.
19687	" <i>capillaceus</i> Lam.
19883	" <i>microcephalus</i> HBK.
19889	" <i>bufonius</i> L.

Further determinations made at the Gray Herbarium of the plants
of Killip & Smith's Colombian expedition. Apr. 27, 1928.

- 15410 *Oliganthes discolor* (HBK.) Sch.-Bip.
15417 *Eupatorium imulaefolium* HBK., f. *suaveolens* (HBK.) Hieron.
15745 " *tinifolium* HBK.
16524 " *inulaefolium* HBK., f. " "
17121 " *stoechadifolium* L. f.
17543 " " "
20103 " *pycnocephalum* Less.
20743 " *Vargasianum* DC.

Corrections of clerical errors in the list previously sent.

For 19542 *Eupatorium pycnocephalum*, read 19642.

In the identification of the hybrid no. 17715, the name of the second
parent is crassiceps, not crassipes.

Colombian Pteridophyta
collected by E. P. Killip
and A. C. Smith, 1926-1927.

(C. P. Killip & A. C. Smith)

O = no a by day 40 C.
✓ = mounted with the Herbarium
old = sample is no either well enough
specifiable so may possibly identify up.
S. = small specimen.

COLOMBIAN PTERIDOPHYTA COLLECTED BY E. P. KILLIP AND A. C. SMITH,
1926-1927.

- ✓ 14290. *Tectaria martinicensis* (Spreng.) Copel.
- ✓ 14292. *Lygodium*
- ✓ 14299. *Dryopteris*
- ✓ 14358. *Dryopteris*
- ✓ 14362. *Adiantum lucidum* (Cav.) Swartz
- ✓ 14433. *Acrostichum aureum* L.
- ✓ 14460. *Polypodium decumanum* Willd.
- 14658. *Asplenium*
- ✓ 14677. *Cycloptilis semicordata* (Sw.) J. Sm.
- ✓ 14728. *Dryopteris*
- ✓ 14730. *Polypodium crassifolium* L.
- ✓ 14750. *Adiantum*
- ✓ 14751. *Dryopteris*
- ✓ 14754. *Nephrolepis*
- ✓ 14791. *Ceratopteris*
- ✓ 14819. *Pityrogramma calomelaena* (L.) Link
- ✓ 14830. *Selaginella pedata* Klotsch.
- ✓ 14831. *Salpichlaena volubilis* (Kaulf.) J. Sm.
- ✓ 14833. *Adiantum*
- ✓ 14836. *Alsophila blechnoides* (Rich.) Hook.
- ✓ 14837. *Lindsaya*
- ✓ 14838. *Trichomanes pinnatum* Hedw.
- ✓ 14843. *Selaginella pedata* Klotsch
- ✓ 14861. *Danaea*
- o 14863. *Adiantum*
- ✓ 14867. *Trichomanes*
- ✓ 14868. *Leptochilus*
- ✓ 14872. *Selaginella* *jungmannoides* (Stand.) Spring.
- ✓ 14873. *Lindsaya*
- ✓ 14924. *Dryopteris*
- o 14974. *Lindsaya*
- ✓ 15004. *Lycopodium*
- ✓ 15011. *Anemia*
- ✓ 15016. *Blechnum*
- 15027. *Adiantum*
- 15035. *Lindsaya stricta* (Sw.) Dry.
- ✓ 15039. *Dryopteris*
- ✓ 15041. *Pityrogramma calomelaena* (L.) Link
- ✓ 15057. *Polypodium*
- ✓ 15084. *Nephrolepis*
- ✓ 15088. *Cyathea*
- ✓ 15094. *Lycopodium*

- ✓ 15109. *Dicranopteris*
- ✓ 15110. *Dicranopteris*
- ✓ 15121. *Struthiopteris*
- ✓ 15128. *Elaphoglossum*
- ✓ 15129. *Lindsaya*
- ✓ 15130. *Lindsaya*
- ✓ 15137. *Lophidium elegans* (Vahl) Presl
- ✓ 15145. *Polypodium*
- ✓ 15146. *Elaphoglossum*
- ✓ 15147. *Polypodium glaucophyllum* Kunze
- ✓ 15149. *Oleandra*
- ✓ 15150. *Vittaria*
- ✓ 15152. *Trichomanes*
- ✓ 15153. *Trichomanes*
- 15169. *Oleandra*
- ✓ 15202. *Alsophila*
- 15203. *Trichomanes*
- 15204. *Nephrolepis*
- 15211. *Selaginella*
- ✓ 15248. *Dryopteris*
- 15257. *Vittaria*
- ✓ 15271. *Vittaria*
- ✓ 15272. *Polypodium percussum* Cav.
- ✓ 15281. *Lycopodium*
- ✓ 15285. *Elaphoglossum*
- 15287. *Lycopodium*
- ✓ 15297. *Polypodium*
- ✓ 15309. *Alsophila*
- 15310. *Trichomanes*
- 15311. *Elaphoglossum*
- 15327. *Trichomanes*
- 15334. *Hymenophyllum*
- 15337. *Lindsaya*
- ✓ 15338. *Cyathea*
- ✓ 15339. *Elaphoglossum*
- 15340. *Polypodium*
- ✓ 15341. *Polybotrya*
- 15342. *Hymenophyllum*
- ✓ 15344. *Polypodium duale* Maxon
- ✓ 15355. *Blechnum occidentale* L. (var.)
- 15356. *Polypodium*
- ✓ 15358. *Hymenophyllum*
- ✓ 15381. *Dryopteris*
- ✓ 15407. *Polypodium lanceolatum* L.
- ✓ 15424. *Equisetum*
- ✓ 15484. *Selaginella Hoffmannii* Hieron
- ✓ 15489. *Dryopteris*
- ✓ 15490. *Struthiopteris*
- 15491. *Lycopodium*
- 15497. *Lycopodium*

- ✓ 15508. Polypodium
- ✓ 15550. Pteris pedophylla Swartz
- 15551. Selaginella
- ✓ 15555. Dryopteris
- ✓ 15556. Asplenium alatum H. & B.
- ✓ 15558. Diplazium
- ✓ 15607. Polypodium
- ✓ 15611. Ophioglossum crotalophoroides Walt.
- 15636. Lycopodium
- ✓ 15637. Lycopodium
- ✓ 15640. Asplenium
- ✓ 15641. Elaphoglossum
- ✓ 15642. Polypodium
- ✓ 15652. Psilegramme
- ✓ 15653. Lycopodium
- 15654. Elaphoglossum
- ✓ 15658. Jamesonia
- ✓ 15664. Lycopodium contiguum Kl.
- ✓ 15695. Jamesonia
- ✓ 15696. Asplenium
- ✓ 15697. Asplenium
- ✓ 15699. Polystichum
- ✓ 15700. Struthiopteris
- ✓ 15701. Polypodium
- ✓ 15707. Elaphoglossum
- ✓ 15709. Elaphoglossum
- ✓ 15710. Elaphoglossum
- ✓ 15713. Polystichum
- ✓ 15726. Polypodium
- ✓ 15727. Polypodium
- ✓ 15740. Polypodium
- ✓ 15746. Polypodium
- ✓ 15747. Polypodium
- ✓ 15748. Polystichum
- ✓ 15755. Elaphoglossum
- ✓ 15758. Psilegramme
- ✓ 15771. Elaphoglossum
- ✓ 15774. Asplenium monanthes L.
- ✓ 15775. Elaphoglossum
- ✓ 15776. Asplenium monanthes L.
- ✓ 15780. Polystichum
- ✓ 15785. Dryopteris
- ✓ 15786. Elaphoglossum
- ✓ 15792. Dryopteris paleacea (Sw.)
- ✓ 15797. Elaphoglossum
- ✓ 15798. Elaphoglossum
- ✓ 15799. Lycopodium complanatum L. var.

- ✓ 15804. *Alsophila quadripinnata* (Gmel.) C. Chr.
- ✓ 15807. *Elaphoglossum*
- ✓ 15808. *Elaphoglossum*
- ✓ 15809. *Polypodium*
- ✓ 15812. *Psilogrammae*
- ✓ 15813. *Polypodium*
- ✓ 15814. *Lycopodium complanatum* L. var.
- ✓ 15818. *Hymenophyllum*
- 15844. *Elaphoglossum*
- 15845. *Elaphoglossum*
- 15846. *Polypodium*
- ✓ 15847. *Polypodium*
- 15848. *Polypodium*
- ✓ 15852. *Alsophila*
- ✓ 15854. *Polypodium*
- ✓ 15858. *Polypodium*
- ✓ 15861. *Cyathea*
- ✓ 15874. *Elaphoglossum*
- ✓ 15876. *Asplenium Serra* L. & F.
- ✓ 15882. *Culeita coniifolia* (Hook.) Maxon
- ✓ 15883. *Elaphoglossum*
- 15885. *Polypodium semihirsutum* Kl.
- ✓ 15886. *Cyathea*
- ✓ 15903. *Lycopodium*
- ✓ 15904. *Dicranopteris*
- ✓ 15909. *Hymenophyllum*
- ✓ 15910. *Polypodium*
- ✓ 15923. *Paesia*
- ✓ 15938. *Psilogramme*
- 15939. *Asplenium*
- ✓ 15940. *Lycopodium Jussiaei* Desv.
- ✓ 15944. *Polypodium glaucophyllum* Kunze
- ✓ 15948. *Asplenium*
- ✓ 15950. *Asplenium Serra* L. & F.
- 15957. *Polypodium fraxinifolium* Jacq. aff.
- ✓ 15959. *Elaphoglossum*
- ✓ 15968. *Alsophila*
- ✓ 15972. *Asplenium Serra* L. & F.
- ✓ 15973. *Polypodium*
- ✓ 15992. *Trichomanes capillaceum* L.
- ✓ 15994. *Polypodium*
- ✓ 15995. *Polypodium glaucophyllum* Kunze
- ✓ 15996. *Polypodium loricatum* L.
- ✓ 15999. *Lycopodium clavatum* L. var.
- ✓ 16018. *Equisetum bogotense* H. B. K.
- 16021. *Polypodium*
- 16022. *Hymenophyllum*
- ✓ 16024. *Selaginella radiata* (Aubl.) Bak.
- 16031. *Elaphoglossum*
- ✓ 16033. *Cyathea*
- ✓ 16034. *Elaphoglossum*
- ✓ 16041. *Polypodium*

- /16049. *Asplenium Serra* L. & F.
✓ 16053. *Polypodium*
✓ 16057. *Dicranstaedtia*
✓ 16059. *Struthiopteris*
✓ 16068. *Pityrogramma tartarea* (Cav.) Maxon
✓ 16069. *Polypodium glaucophyllum* Kunze
✓ 16071. *Equisetum bogotense* H. B. K.
✓ 16076. *Polypodium fraxinifolium* Jacq.
16096. *Asplenium vaddia num* Hand.
✓ 16098. *Asplenium*
✓ 16123. *Equisetum*
✓ 16130. *Dryopteris*
✓ 16136. *Dryopteris*
✓ 16143. *Hymenophyllum*
✓ 16144. *Hymenophyllum*
16145. *Hymenophyllum*
16146. *Hymenophyllum*
16147. *Hymenophyllum*
16148. *Hymenophyllum*
16201. *Anemia*
✓ 16202. *Asplenium praemorsum* Swartz
✓ 16207. *Adiantopsis*
✓ 16217. *Dryopteris patens* (Sw.) Kuntze
16238. *Cheilanthes*
✓ 16264. *Polypodium*
✓ 16356. *Asplenium pumilum* Swartz
✓ 16357. *Doryopteris*
✓ 16360. *Adiantopsis*
✓ 16368. *Asplenium praemorsum* Swartz
✓ 16369. *Polypodium*
✓ 16372. *Trismeria trifoliata* (L.) Diels
16381. *Anemia*
✓ 16382. *Pellaea flexuosa* (Kaulf.) Link
✓ 16386. *Notholaena bonariensis* (Willd.) C. Chr.
✓ 16397. *Polypodium*
16404. *Polypodium*
16422. *Adiantum*
16423. *Cheilanthes*
✓ 16486. *Notholaena bonariensis* (Willd.) C. Chr.
✓ 16500. *Polypodium lanceolatum* L.
16507. *Asplenium*
✓ 16509. *Blechnum occidentale* L.
✓ 16516. *Pteris*
16551. *Elaphoglossum*
✓ 16555. *Elaphoglossum*
✓ 16556. *Asplenium*
✓ 16557. *Dryopteris*
✓ 16563. *Asplenium*
✓ 16567. *Selaginella mnioides* (Lieb.) A. Br.
✓ 16569. *Polypodium*

- ✓ 16582. Polypodium
- ✓ 16587. Diplazium
- ✓ 16594. Pteris
- 16632. Asplenium
- ✓ 16636. Struthiopteris sp. Juvenile.
- 16638. Trichomanes diaphanum Kth. var. eximium (Kunze) Hieron.
- ✓ 16639. Asplenium harpeodes Kunze
- 16647. Polypodium
- ✓ 16652. Asplenium
- ✓ 16653. Polypodium
- ✓ 16658. Trichomanes montenum Hook.
- ✓ 16659. Dryopteris
- ✓ 16676. Diplazium
- 16677. Asplenium Serra L. & F.
- ✓ 16700. Asplenium monanthes L.
- ✓ 16703. Cystopteris fragilis (L.) Bernh.
- ✓ 16731. Equisetum bogotense H. B. K.
- 16732. Elaphoglossum
- 16733. Elaphoglossum
- ✓ 16734. Pteris
- 16735. Hymenophyllum
- ✓ 16803. Asplenium theciferum (H. B. K.) Mett.
- ✓ 16804. Asplenium praemorsum Swartz
- ✓ 16808. Dryopteris
- ✓ 16809. Asplenium monanthes L.
- 16817. Polypodium
- 16850. Dryopteris
- 16851. Cheilanthes
- ✓ 16857. Notholaena bonariensis (Willd.) C. Chr.
- ✓ 16861. Asplenium praemorsum Swartz
- ✓ 16878. Pityrogramma
- ✓ 16880. Asplenium
- ✓ 16882. Asplenium monanthes L.
- ✓ 16902. Polypodium
- ✓ 16903. Polypodium glaucophyllum Kunze
- ✓ 16911. Dryopteris paleacea (Sw.)
- 16914. Elaphoglossum
- ✓ 16937. Asplenium auritum Swartz
- ✓ 16938. Polypodium
- ✓ 16942. Lycopodium clavatum L. var.
- ✓ 16944. Elaphoglossum
- ✓ 16964. Polystichum
- ✓ 16965. Asplenium
- ✓ 16985. Polypodium
- ✓ 16986. Polystichum
- ✓ 16991. Polypodium
- ✓ 16994. Blechnum occidentale L.

- ✓ 16996. *Alsophila*
- ✓ 17000. *Dennstaedtia*
- ✓ 17009. *Adiantum*
- 17010. *Asplenium*
- ✓ 17012. *Selaginella Bangii* Niven.?
- 17019. *Asplenium*
- 17020. *Pteris quadriaurita* Retz.
- ✓ 17028. *Pityrogramma tartarea* (Cav.) Maxon
- ✓ 17032. *Cystopteris fragilis* (L.) Bernh.
- ✓ 17038. *Asplenium*
- 17043. *Polystichum*
- ✓ 17075. *Diplazium*
- ✓ 17084. *Polystichum*
- ✓ 17088. *Asplenium*
- ✓ 17089. *Asplenium theciferum* (M. B. K.) Mett.
- ✓ 17105. *Adiantum*
- ✓ 17124. *Alsophila quadripinnata* (Gmel.) C. Chr.
- ✓ 17128. *Lycopodium*
- ✓ 17146. *Alsophila quadripinnata* (Gmel.) C. Chr.
- 17151. *Asplenium*
- 17152. *Asplenium monanthes* L.
- ✓ 17162. *Pteris*
- ✓ 17164. *Polypodium*
- ✓ 17165. *Polypodium glaucophyllum* Kunze
- ✓ 17175. *Fellaea ternifolia* (Cav.) Link
- ✓ 17176. *Dryopteris*
- ✓ 17177. *Alsophila quadripinnata* (Gmel.) C. Chr.
- ✓ 17181. *Dryopteris paleacea* (Sw.)
- 17189. *Elaphoglossum*
- ✓ 17190. *Elaphoglossum*
- ✓ 17201. *Alsophila quadripinnata* (Gmel.) C. Chr.
- 17219. *Hymenophyllum*
- 17220. *Hymenophyllum*
- 17221. *Hymenophyllum*
- ✓ 17222. *Psilotogramme*
- ✓ 17232. *Polystichum*
- ✓ 17250. *Cheilanthes lendigera* (Cav.) S. Wartz
- ✓ 17251. *Elaphoglossum*
- 17258. *Polypodium*
- 17259. *Asplenium cordoleptum* Lee
- ✓ 17260. *Asplenium monanthes* L.
- 17261. *Polystichum*
- 17277. *Polystichum*
- 17289. *Elaphoglossum*
- ✓ 17295. *Polypodium*
- 17315. *Polypodium*
- 17324. *Woodsia*
- ✓ 17332. *Dryopteris*
- ✓ 17333. *Asplenium monanthes* L.

- ✓ 17345. Polypodium
- ✓ 17349. Cystopteris fragilis (L.) Bernh.
- 17356. Polypodium
- ✓ 17357. Pellaea ternifolia (Cav.) Link
- 17383. Struthiopteris
- ✓ 17402. Polystichum
- 17412. Jamesonia
- 17418. Polypodium
- 17424. Asplenium
- 17438. Blechnum occidentale L. var.
- 17439. Cheilanthes
- ✓ 17440. Pellaea flexuosa (Kaulf.) Link
- ✓ 17443. Asplenium praemorsum Swartz
- 17473. Polypodium
- 17474. Lycopodium
- 17475. Jamesonia
- 17476. Lycopodium
- 17477. Polypodium
- 17498. Elaphoglossum
- ✓ 17569. Elaphoglossum
- 17571. Elaphoglossum
- 17575. Jamesonia
- ✓ 17605. Lycopodium
- ✓ 17613. Polypodium
- ✓ 17624. Elaphoglossum
- ✓ 17633. Woodsia
- ✓ 17635. Elaphoglossum
- ✓ 17647. Jamesonia
- ✓ 17654. Dryopteris
- ✓ 17665. Elaphoglossum
- ✓ 17706. Dryopteris paleacea (Sw.)
- ✓ 17707. Elaphoglossum
- ✓ 17708. Polypodium
- 17712. Asplenium *cladoleptan* Zée
- 17713. Polypodium
- 17725. Jamesonia
- ✓ 17741. Elaphoglossum
- 17748. Elaphoglossum
- 17749. Lycopodium
- ✓ 17751. Polypodium
- ✓ 17752. Jamesonia
- ✓ 17756. Hymenophyllum
- 17757. Asplenium *cladoleptan* Zée
- 17758. Elaphoglossum
- 17759. Hymenophyllum
- 17760. Dryopteris
- 17762. Lycopodium
- 17763. Struthiopteris
- ✓ 17768. Asplenium
- ✓ 17787. Hymenophyllum
- ✓ 17793. Dryopteris

- ✓ 17794. Polypodium
✓ 17806. Elaphoglossum
✓ 17811. Dryopteris
17812. Jamesonia
✓ 17815. Dicksonia
✓ 17821. Cyathea
✓ 17823. Polypodium
17836. Polypodium
✓ 17838. Cystopteris fragilis (L.) Bernh.
✓ 17839. Hymenophyllum
✓ 17846. Elaphoglossum
17847. Polypodium
✓ 17854. Dicksonia
✓ 17859. Histiopteris incisa (Thunb.) J. Sm.
17867. Elaphoglossum
17880. Elaphoglossum
✓ 17891. Struthiopteris
✓ 17892. Elaphoglossum
17893. Elaphoglossum
17900. Polypodium
✓ 17911. Cystopteris fragilis (L.) Bernh.
✓ 17912. Pityrogramma
✓ 17921. Histiopteris incisa (Thunb.) J. Sm.
✓ 17925. Polypodium
✓ 17932. Dryopteris paleacea (Sw.)
17937. Elaphoglossum
✓ 17947. Struthiopteris
✓ 17950. Cystopteris fragilis (L.) Bernh.
17951. Elaphoglossum
17952. Polypodium
17953. Polypodium
17959. Polypodium
○ 17964. Isoetes
17967. Lycopodium
17968. Lycopodium
17970. Elaphoglossum
17977. Elaphoglossum
17983. Polystichum
✓ 18003. Asplenium praemorsum Swartz
18011. Elaphoglossum
✓ 18022. Equisetum bogotense H. B. K.
✓ 18027. Cystopteris fragilis (L.) Bernh.
18032. Asplenium
✓ 18036. Polypodium glaucophyllum Kunze
18054. Elaphoglossum
✓ 18064. Histiopteris incisa (Thunb.) J. Sm.
✓ 18084. Culcita coniifolia (Hook.) Maxon
✓ 18095. Dicksonia
✓ 18097. Polypodium

- ✓ 18114. Selaginella
✓ 18118. Polypodium
✓ 18128. Polystichum
✓ 18135. Polypodium
◦ 18136. Polypodium
✓ 18143. Polypodium
◦ 18147. Adiantum
18164. Hymenophyllum
✓ 18168. Dryopteris
✓ 18175. Asplenium
✓ 18191. Jamesonia
✓ 18195. Psilogramme
18197. Asplenium *cladolepton* Grise
18198. Asplenium *sessilifolium* Desv.
18203. Jamesonia
✓ 18209. Lycopodium
✓ 18251. Polystichum
✓ 18252. Struthiopteris
18260. Elaphoglossum
18261. Elaphoglossum
18263. Elaphoglossum
✓ 18275. Polypodium lanceolatum L.
✓ 18280. Selaginella *radiata* (Aubl.) Bak.
✓ 18294. Dryopteris
✓ 18297. Dryopteris
✓ 18303. Elaphoglossum
✓ 18329. Lycopodium
✓ 18335. Dryopteris
✓ 18336. Dryopteris
✓ 18343. Selaginella *radiata* (Aubl.) Bak.
✓ 18351. Polystichum
✓ 18352. Asplenium
✓ 18357. Selaginella *Poepigiana* (Hook. & Grev.) Spring.
18408. Elaphoglossum
18419. Lycopodium
18428. Asplenium
✓ 18433. Jamesonia
18435. Lycopodium
✓ 18446. Jamesonia
18454. Lycopodium
18455. Lycopodium
✓ 18463. Struthiopteris
18465. Lycopodium
◦ 18476. Polypodium
✓ 18478. Polystichum
✓ 18488. Polypodium
18489. Polypodium
◦ 18495. Asplenium
18498. Elaphoglossum
✓ 18500. Struthiopteris

- ✓ 18506. *Psilogramme*
- 18507. *Asplenium*
- 18509. *Asplenium*
- ✓ 18510. *Polypodium murorum* Hook.
- 18511. *Polypodium*
- 18516. *Asplenium*
- 18517. *Elaphoglossum*
- ✓ 18518. *Polypodium*
- ✓ 18527. *Polystichum*
- 18540. *Betrychium*
- ✓ 18550. *Asplenium fragile* Presl
- 18578. *Elaphoglossum*
- ✓ 18575. *Asplenium monanthes* L.
- ✓ 18607. *Elaphoglossum*
- 18608. *Polypodium*
- 18611. *Struthiopteris*
- ✓ 18612. *Dryopteris paleacea* (Sw.)
- ✓ 18613. *Dryopteris*
- 18614. *Hymenophyllum*
- 18617. *Jamesonia*
- 18625. *Lycopodium*
- 18658. *Jamesonia*
- ✓ 18662. *Lycopodium*
- 18667. *Psilogramme*
- 18671. *Elaphoglossum*
- 18672. *Elaphoglossum*
- ✓ 18673. *Elaphoglossum*
- ✓ 18674. *Polystichum*
- ✓ 18675. *Dryopteris*
- ✓ 18678. *Psilogramme*
- 18682. *Lycopodium*
- ✓ 18702. *Dryopteris*
- ✓ 18703. *Elaphoglossum*
- ✓ 18704. *Dryopteris*
- ✓ 18705. *Polypodium*
- ✓ 18706. *Dicranopteris simplex* (Desv.) Maxon
- ✓ 18725. *Polypodium murorum* Hook.
- ✓ 18729. *Polypodium lanceolatum* L.
- ✓ 18739. *Polypodium*
- ✓ 18744. *Cheilanthes leadigera* (Cav.) Swartz
- ✓ 18751. *Fellaea ternifolia* (Cav.) Link
- ✓ 18753. *Dicranopteris*
- ✓ 18770. *Vittaria*
- 18771. *Hymenophyllum*
- 18773. *Hymenophyllum*
- ✓ 18775. *Dryopteris*
- 18780. *Polypodium*
- ✓ 18783. *Asplenium auritum* Swartz?
- ✓ 18802. *Cystopteris fragilis* (L.) Bernh.

- 18813. Pteris
- ✓ 18817. Asplenium monanthes L.
- ✓ 18818. Equisetum bogotense H. B. K.
- ✓ 18823. Polypodium murorum Hook.
- ✓ 18824. Dryopteris paleacea (Sw.)
- ✓ 18826. Struthiopteris
- ✓ 18847. Pteris podophylla Swartz
- ✓ 18855. Dennstaedtia
- 18864. Hymenophyllum
- ✓ 18892. Struthiopteris
- ✓ 18900. Dicranopteris flexuosa (Schrad.) Underw.
- ✓ 18924. Hypolepis
- ✓ 18926. Dryopteris paleacea (Sw.)
- ✓ 18945. Polypodium glaucophyllum Kunze
- ✓ 18949. Dicksonia
- ✓ 18959. Polypodium crassifolium L.
- ✓ 18960. Polypodium
- ✓ 18973. Pteris
- ✓ 18976. Trichomanes capillaceum L.
- ✓ 18977. Trichomanes montanum Hook.
- ✓ 18989. Dryopteris
- 18991. Elaphoglossum
- ✓ 18993. Polypodium
- ✓ 19014. Asplenium cristatum Lam.
- ✓ 19030. Dennstaedtia
- ✓ 19035. Pteris
- ✓ 19090. Pellaea flexuosa (Kaulf.) Link
- ✓ 19096. Selaginella mnioides (Lieb.) A. Br.
- ✓ 19111. Dennstaedtia
- ✓ 19125. Dryopteris
- ✓ 19128. Asplenium
- ✓ 19145. Marattia Kaulfussii J. Sm.
- ✓ 19148. Asplenium
- ✓ 19149. Trichomanes
- ✓ 19153. Trichomanes montanum Hook.
- 19161. Trichomanes
- 19162. Trichomanes montanum Hook.
- ✓ 19165. Polypodium glaucophyllum Kunze
- ✓ 19168. Diplazium
- ✓ 19173. Alsophila
- ✓ 19174. Pteris
- ✓ 19175. Polypodium glaucophyllum Kunze
- ✓ 19176. Diplazium
- ✓ 19179. Pteris
- ✓ 19183. Trichomanes ~~angustatum~~ Cam. C. 1932
- 19186. Elaphoglossum
- ✓ 19188. Alsophila
- ✓ 19189. Trichomanes ~~hymenophylloides~~ v.d. B.
- 19191. Asplenium ~~addianum~~ Hand
- ✓ 19198. Lycopodium
- ✓ 19199. Trichomanes capillaceum L.

- ✓ 19200. *Polypodium glaucophyllum* Kunze
- ✓ 19202. *Polypodium*
- ✓ 19206. *Equisetum bogotense* H. B. K.
- 19211. *Trichomanes diaphanum* Kunth. var. *eximium* (Kunze) Hieron.
- ✓ 19246. *Blechnum occidentale* L. (form)
- ✓ 19258. *Diplazium*
- ✓ 19259. *Pteris*
- 19261. *Selaginella mnioides* (Lieb.) Bok.
- ✓ 19267. *Cyathea*
- ✓ 19271. *Asplenium auritum* Swartz
- ✓ 19272. *Polypodium fraxinifolium* Jacq.
- ✓ 19274. *Polypodium*
- ✓ 19275. *Dryopteris*
- ✓ 19276. *Dryopteris*
- ✓ 19277. *Hemitelia*
- ✓ 19278. *Polypodium fraxinifolium* Jacq.
- ✓ 19279. *Elaphoglossum*
- ✓ 19283. *Polypodium*
- ✓ 19284. *Polypodium*
- ✓ 19297. *Polypodium lanceolatum* L.
- ✓ 19300. *Alsophila quadripinnata* (Gmel.) C. Chr.
- ✓ 19303. *Alsophila quadripinnata* (Gmel.) C. Chr.
- 19304. *Elaphoglossum*
- 19317. *Hymenophyllum*
- ✓ 19323. *Dryopteris*
- 19351. *Anemia phyllitidis* (L.) Swartz
- ✓ 19365. *Adiantum macrophyllum* Swartz
- ✓ 19367. *Dryopteris effusa* (Sw.) Urban
- ✓ 19368. *Hypolepis*
- ✓ 19373. *Diplazium*
- ✓ 19374. *Diplazium*
- ✓ 19375. *Tectaria*
- ✓ 19379. *Pteris*
- 19380. *Asplenium*
- ✓ 19381. *Asplenium*
- 19393. *Polypodium*
- ✓ 19395. *Dryopteris*
- ✓ 19418. *Polypodium thyrsanolepis* A. Br.
- ✓ 19428. *Selaginella*
- ✓ 19434. *Elaphoglossum*
- ✓ 19436. *Elaphoglossum*
- ✓ 19453. *Adiantum*
- ✓ 19473. *Asplenium*
- ✓ 19483. *Dryopteris*
- ✓ 19492. *Diplazium*
- ✓ 19555. *Elaphoglossum*
- 19592. *Jamesonia*
- 19593. *Jamesonia*
- ✓ 19601. *Polypodium*
- ✓ 19605. *Lycopodium complanatum* L. var.

- ✓19607. *Psiogramme*
- 19609. *Elaphoglossum*
- 19613. *Asplenium*
- ✓19658. *Cheilanthes leadigera* (Cav.) Swartz
- ✓19660. *Cystopteris fragilis* (L.) Bernh.
- ✓19713. *Elaphoglossum*
- 19732. *Dryopteris*
- ✓19736. *Dryopteris paleacea* (Sw.)
- ✓19761. *Polypodium lanceolatum* L.
- 19789. *Polypodium leucolepis* Kl
- ✓19829. *Alsophila quadripinnata* (Gmel.) C. Chr.
- ✓19835. *Cyathea*
- ✓19852. *Struthiopteris*
- ✓19856. *Dryopteris*
- ✓19857. *Cyathea*
- ✓19858. *Polypodium*
- ✓19860. *Hymenophyllum*
- ✓19861. *Cyathea*
- ✓19876. *Polypodium*
- ✓19887. *Dicksonia*
- ✓19915. *Polypodium*
- ✓19927. *Lycopodium Jussiaei* Desv.
- ✓19929. *Trichomanes angustatum* Carm.
- ✓19930. *Hymenophyllum*
- ✓19931. *Asplenium harpedes* Kunze
- 19933. *Polypodium*
- ✓19938. *Culcita coniifolia* (Hock.) Maxon
- 19945. *Asplenium*
- ✓19949. *Polystichum dubium* (Karst.) Diels
- 19952. *Trichomanes*
- ✓19953. *Dryopteris*
- ✓19962. *Cyathea*
- 19968. *Betrichium*
- ✓19970. *Dennstaedtia*
- ✓19971. *Dryopteris*
- ✓19974. *Asplenium*
- ✓19983. *Diplazium*
- ◆ 19984. *Trichomanes*
- ✓19985. *Polypodium*
- 19988. *Asplenium*
- ✓19989. *Polypodium*
- ✓19996. *Trichomanes*
- ✓19997. *Polypodium*
- ✓19998. *Dryopteris*
- ✓19999. *Polypodium*
- ✓20062. *Lycopodium*
- ✓20069. *Asplenium auritum* Swartz

- ✓ 20077. Polypodium
- ✓ 20089. Polystichum lineatum (Sw.) J. Sm.
- ✓ 20095. Rhipidopteris peltata (Sw.) Schott
- 20098. Asplenium praemorsum Swartz
- 20099. Polypodium
- ✓ 20100. Cyathea
- ✓ 20126. Polypodium polypodioides (L.) Watt
- ✓ 20127. Anemia phyllitidis (L.) Swartz
- ✓ 20159. Polystichum
- 20162. Polypodium
- ✓ 20168. Polystichum platyphyllum (Willd.) Presl
- ✓ 20171. Asplenium monanthes L.
- ✓ 20173. Polypodium glaucophyllum Kunze
- ✓ 20191. Polypodium
- 20196. Dryopteris
- ✓ 20209. Histiopteris incisa (Thunb.) J. Sm.
- ✓ 20210. Polypotrya
- ✓ 20217. Asplenium
- ✓ 20221. Danaea
- 20223. Polypodium
- ✓ 20230. Asplenium
- ✓ 20232. Struthiopteris sp. Juvenile
- ✓ 20233. Trichomanes nigrilimum
- ✓ 20239. Asplenium Serra L. & F.
- ✓ 20241. Dryopteris
- 20248. Polypodium
- 20249. Polypodium
- 20251. Hymenophyllum
- ✓ 20264. Diplazium
- ✓ 20267. Dryopteris
- ✓ 20268. Asplenium
- ✓ 20272. Hypolepis
- ✓ 20274. Polypodium fraxinifolium Jacq.
- 20275. Alsophila quadripinnata (Gmel.) C. Chr.
- ✓ 20321. Hymenophyllum
- ✓ 20326. Asplenium Serra L. & F.
- 20335. Asplenium
- ✓ 20351. Pteris podophylla Swartz
- ✓ 20366. Polystichum dubium (Karst.) Diels
- ✓ 20373. Asplenium harpeodes Kunze
- ✓ 20377. Polypodium
- ✓ 20378. Polypodium
- ✓ 20382. Pteris
- ✓ 20384. Polystichum lineatum (Sw.) J. Sm.

- ✓ 20385. Dryopteris
- ✓ 20387. Dryopteris paleacea (Sw.)
- ✓ 20396. Marattia
- ✓ 20397. Diplazium
- ✓ 20402. Selaginella Poepigiana (Hook & Grev.) Spring.
- ✓ 20406. Polypodium
- ✓ 20407. Cyathea
- ✓ 20411. Dryopteris
- ✓ 20414. Dennstaedtia
- ✓ 20416. Asplenium
- ✓ 20420. Asplenium harpeodes Kunze
- ✓ 20424. Trichomanes psxidifolium L.
- ✓ 20428. Polystichum lineatum (Sw.) J. Sm.
- ✓ 20429. Asplenium
- ✓ 20430. Asplenium Serra L. & F.
- ✓ 20437. Elaphoglossum
- ✓ 20438. Polystichum dubium (Karst.) Diels
- ✓ 20440. Diplazium
- ✓ 20441. Asplenium hastatum Kl.
- ✓ 20444. Dryopteris
- ✓ 20445. Diplazium
- ✓ 20448. Polystichum
- ✓ 20449. Hymenophyllum
- ✓ 20453. Dryopteris
- ✓ 20462. Dennstaedtia
- ✓ 20476. Elaphoglossum
- ✓ 20479. Polypodium lanceolatum L.
- ✓ 20519. Struthiopteris
- ✓ 20614. Alsophila quadriplinata (Gmel.) C. Chr.
- ✓ 20627. Polypodium
- ✓ 20628. Psilogramma
- 20638. Polypodium
- 20639. Polypodium
- ✓ 20644. Histiopteris incisa (Thunb.) J. Sm.
- 20645. Polypodium
- 20649. Lycopodium
- 20660. Hymenophyllum
- ✓ 20666. Polypodium
- ✓ 20670. Dicksonia
- ✓ 20672. Hypolepis
- ✓ 20681. Struthiopteris
- ✓ 20684. Dryopteris
- ✓ 20685. Polypodium
- 20686. Polypodium
- ✓ 20689. Elaphoglossum
- ✓ 20690. Culcita coniifolia (Hook.) Maxon
- ✓ 20691. Hymenophyllum
- ✓ 20697. Dryopteris paleacea (Sw.)

-17-

- ✓ 20713. *Elaphoglossum*
- ✓ 20719. *Cystopteris fragilis* (L.) Bernh.
- ✓ 20729. *Elaphoglossum*
- ✓ 20742. *Polypodium glaucophyllum* Kunze
- ✓ 20775. *Elaphoglossum*
- ✓ 20788. *Doryopteris palmata* (Willd.) J. Sm.
- 20792. *Pteris quadriaurita* Retz
- 20798. *Pityrogramma calomelaena* (L.) Link
- 20805. *Asplenium*
- ✓ 20811. *Dryopteris*
- 20813. *Adiantopsis radiata* (L.) Féo
- 20814. *Blechnum*
- 20818. *Adiantum*
- ✓ 20934. *Selaginella Lindigii* A. Br.
- ✓ 20935. *Cheilanthes*
- ✓ 21133. *Anemia*
- 21149. *Polypodium meridense* Kl.
- ✓ 21150. *Polypodium*
- ✓ 21151. *Asplenium hastatum* Kl.
- ✓ 21152. *Polypodium fraxinifolium* Jacq.
- 21153. *Polypodium*
- 21155. *Anemia*
- 21165. *Dryopteris*
- 21169. *Asplenium*
- 21171. *Hymenophyllum*
- 21177. *Botrychium cicutarium* (Lav.) Sw.
- 21180. *Jamesonia*
- 21181. *Elaphoglossum*
- ✓ 21182. *Alsophila quadripinnata* (Gmel.) C. Chr.
- ✓ 21196. *Elaphoglossum*
- 21198. *Equisetum bogotense* H. B. K.
- 21211. *Cheilanthes*

~~✓~~ = taken from ~~and~~ Killip & Smith - Colombia. 1926
label written & entered on list

Peperomia

- ✓ 14648. P. santa-martae ~~sp.~~ *Jul.*
✓ 15047. obtusifolia *a. Dietr.*
✓ 15208. albidiiflora *CDC*
✓ 15316. santosaya *n.* sp.
-✓ 15345. albidiiflora
✓ 15502. discilimba *Jul.*
✓ 15552. Albert-Smithii n. sp.
✓ 15714. Paramillo *Jul.*
✓ 15729. " n. sp.
✓ 15819. dissociabilis n. sp.
✓ 16028. transfigurata n. sp.
✓ 16055. praematura n. sp.
✓ 16199. santanderana *Jul.*
✓ 16259. lebrijana n. sp.
✓ 16282. santanderana n. sp. *g*
-✓ 16292. pereskiaeifolia bucamaranpana n. v.
✓ 16352. *len* jaboncilliflisis n. sp.
-✓ 16353. commixa n. sp.
-✓ 16481. galioides suratana n. var.
-✓ 16482. *a. Dietr.* reflexa sens. lat.
-✓ 16558. *e* lantiginosa n. sp.
✓ 16564. suratana *Jul.*
-✓ 16568. discilimba n. sp.
✓ 16580. *n* bogotafolia
✓ 16615. suratana n. sp.

2

Peperomia

- ✓ 16655. aterrima n. sp.
- ✓ 16656. adscendens C. DC.
- 16815. varigera n. sp.
- ✓ 16975. condicta n. sp.
u. dict.
- ✗ 17001. reflexa ^{u.} sens. lat.
- ✗ 17016. ambigua n. sp.
- ✓ 17078. { obtusifolia f.
pteropoda
- ✓ 17103. Rivicola n. sp.
- ✓ 17287. vetasana n. sp.
- ✗ 17346. Paramillo *hel.*
- ✓ 17419. "
- ✗ 17711. "
- ✓ 17813. tolerabilis n. sp.
- ✓ 17922. paramilla *hel.*
- ✓ 18091. bajana n. sp.
- ✓ 18475. paramilla *hel.*
- ✓ 18512. " *l*
- ✓ 18750. gadioides *HBL*
- ✗ 18946. chartana n. sp.
- ✗ 18963. albidiflora
- ✓ 19016. microphyllophora n. sp.
- ✓ 19185. san-martinensis n. sp.
- ✓ 19363. piperata n. sp.
- ✗ 19364. collipsa ^a n. sp.
- ✓ 19383. terraegan^udens n. sp.
- ✓ 19408. robleana n. sp.
- ✓ 19417. obtusifolia *a. dict.*
- ✓ 19456. tonana n. sp.

3

Peperomia

- ✓ 19472. clavulispica n. sp.
- ✓ 19540. Paramillo ^{ma} ~~Jul.~~
- ✓ 19541. "
- ✓ 19910. tejana n. sp.
- ✓ 19955. ⁿ pamplo ~~y~~ana n. sp.
- ✓ 20049. toledoana n. sp.,
- 20082. pteropoda n. sp.
- ✓ 20092. ^{a. Dietr.} reflexa sens. lat.
- ✓ 20124. quadrifolia ~~HBK~~
- ✓ 20170. tapatana n. sp.
- ✓ 20224. adscendens C. DC.
- ✓ 20367. losoensis n. sp.
- ✓ 20368. ⁿ pamplo ~~f~~ana
- ✓ 20442. Albert-Smithii ~~Jul.~~, v. pilinervia ~~Jul.~~ n. var. (ex later list)
- ✓ 20447. losoensis ~~Jul.~~
- ✓ 20469. ^o ^{ru} abruptifolia n. sp.,

POLYTHOMORPHE

- 14287. P. *pellat*^e *peltatum* (L.) Neig.
 - √14733. " "
 - √16519. " *majus* (C. DC.).

PIPER

- √14193. P. *lippophaeofus* n. sp.
 - √14194. *catalephaeafolium* HBC
 - √14268. "
 √14298. *ripale* n. sp.
 - √14314. *tuberculatum glabratum*
 - √14413. *smilacifolium* HBC
 - √14799. *dioscraefolium*
 - √14875. *Kalbreyeri* n. sp.
 - √14876. *wilchisense* n. sp.
 - √14910. *dioscraefolium*
 - √14943. *tuberculatum glabratum*
 - √15026. *naevifolium* n. sp.
 - √15264. *santa-martanum*
 - √15265. *productispicum* n. sp.
 ✓ 15363. *santosense* n. sp.
 ✓ 15379. *obrutum* n. sp.
 ✓ 15421. *naevifolium minor* h.v.
 - √15445. *piedecuestanum* n. sp.
 - √15498. *exserens* sens. lat.
 - √15509. *pedemontanum* n. sp.
 ✓ 15516. *salutare* n. sp.
 - √15943. *Monticola* n. sp.

5

Piper

- ✓16051. discriminatum n. sp.
- ✓16137. in honestum n. sp.
- ✓16208. bucaramanganum *Ind.*
- ✓16212. granulosum *R. & P.*
- ✓16216. "
- ✓16240. glabrescentipedunculum n. sp.
- ✓16245. bucaramanganum n. sp.
- ✓16297. granulosum *R. & P.*
- ✓16320. cinereum glabricaule n. v.
- ✓16327. librijanum n. sp.
- ✓16358. commixtum *in* ed. ("medium").
- ✓16388. jaboncillanum n. sp.
- ✓16406. semivaginatum n. sp.
- ✓16497. salutare brevispicum *n.v.*
- ✓16517. " "
- ✓16559. porricolor n. sp.
- ✓16575. len^ucostachyum n. sp.
- ✓16586. granulosum *R. & P.*
- ✓16592. Fabrum
- ✓16660. suratanum *Ind.*
- ✓16671. jejunum n. sp.
- ✓16694. len^ucostachyum brevipetiolum *n.v.*
- ✓16720. ovalilimbum *Ind.*
- ✓16775. scabridulum n. sp.
- ✓16780. Clivicola n. sp.
- ✓16793. pseudo-Bredemeyeri n. sp.
- ✓16953. ovalilimbum *Ind.*
- ✓17049. mollitum n. sp.
- ✓17057. hispidibracteum n. sp.

Piper

- ✓ 17127. *ovalilimum* n. sp.
- ✓ 18028. "
- ✓ 18119. *bajanum* n. sp.
- ✓ 18283. *deform^e* n. sp.
- ✓ 18314. *san-vicentense* *Tul.*
- ✓ 18767. *rugatum* n. sp.
- ✓ 18844. *santanderense* *Tul.*
- ✓ 18857. *mollicellum* n. sp.
- ✓ 18873. *extextum* n. sp.
- ✓ 18907. *santanderense* n. sp.
- ✓ 18920. *fastiditum* *Tul.*
- ✓ 18922. *santanderense* *Tul.*
- ✓ 18984. *san-vicentense* n. sp.
- Q 19001. *fastiditum* n. sp.
- ✓ 19093. *chartanum* n. sp.
- ✓ 19102. *fastiditum* *Tul.*
- ✓ 19146. *nemoris* n. sp.
- ✓ 19160. *san-martinense* n. sp.
- ✓ 19181. " "
- ✓ 19360. *Albert-Smithii* n. sp.
- ✓ 19373. *robleanum* n. sp.
- ✓ 19662. *ovalilimum* *Tul.*
- ✓ 19689. *^m finor* *Tul.*
- ✓ 19827. *pamplonanum* n. sp.
- ✓ 19833. *toledanum* n. sp.
- ✓ 20006. *teja-mesmeanum* n. sp.
- ✓ 20151. *tapatanum* n. sp.
- ✓ 20331. *euom* n. sp.
- ✓ 20337. *culaganum* n. sp.

7

Piper

- ✓ 20338. pendentispicum n. sp.
- ✗ 20350. perverrucosum n. sp.
- ✓ 20478. provulgatum n. sp.
- ✗ 20436. losoense n. sp.
- ✗ 20720. ^lpamp^{on}onanum ^{Ind.}
- ✓ 20776. ocellatum n. sp.
- ✓ 20881. santa-martanum
- ✓ 20919. chinacotanum n. sp.
- ✓ 20927. granulosum R. & P.
- ✓ 20953. tuberculatum glabratum
- ✓ 20961. asperifolium ^uHassk
- ✓ 21004. tuberculatum glabratum.

15 nos. marked "—" are among specimens sent to Prof. Griseb. &
several already named by him.

COLOMBIAN PIPERACEAE OF THE KILLIP-SMITH COLLECTION REPRESENTED
AT THE GRAY HERBARIUM, BUT NOT IN THE U. S. NAT. HERB.

14962 - ✓	18277 - ✓
15292 - . ✓	18354 - * ✓
- 15324 - ,	18723 - ✓
- 15975 - *	18788 - ✓
16035 - . ✓	18821 - ✓
16046 - , ✓	19163 - ✓
16162 - . ✓	19166 - ✓
16293 - . ✓	19360 - ✓
- 16321 - :	19926 -
	19956 - . ✓
16354 - . ✓	19973 - . ✓
- 16435 - :	19995 - . ✓
16465 - . ✓	20102 - . ✓
16642 - . ✓	20161 - . ✓
- 16651 - .	20178 - . ✓
- 16725 - *	20215 - . ✓
16726 - . ✓	- 20412 - .
16741 - . ✓	20419 - . ✓
- 17100 - *	- 20439 - *
17167 - . ✓	- 20442 - *
- 17278 - .	20640 - . ✓
- 17286 - .	20781 - . ✓
18120 - . ✓	20955 - . ✓
18121 - . ✓	- 21030 - .
- 18125 - *	

Sent by Express
33 sh. Nov. 14, 1928

15 " named
33

Killip & Smith specimens
seen only in the Gray Herbarium.

Piper.

- ✓14962. *Piper tamborense* n. sp.
✓14962(a) " *narinyense* n. sp.
✓16465. " *scabridilimum* n. sp.
✓16726. " *suratana* ^{un}ined.
✓ 16741. " *expansum* n. sp.
✓ 17167. " *lienosinodum* ined.
✓ 20781. " *granulatifolium* n. sp.

Porthomorphe.

- ✓20955. *Porthomorphe peltata* (L.) Miq.

Peperomia

- ✓15292. *Peperomia alata* sens. lat.
16035. " *hispidulifolia* ined.
✓16046. " *oblanceaelimba* ined.
✓16162. " *carlosiana* C. DC.
✓16293. " *magnoliaefolia* sens. lat.
✓16354. " *pereskiaeefolia*
✓16642. " *hyalostipes* n. sp.
✓18120. " *rivuligaudens* n. sp.
✓18121. " *dignota* n. sp.
✓18277. " *submissa* n. sp.
✓18354. " *fuscopunctulata ternata* n. var.
✓18723. " *fuscopunctulata* n. sp.
✓18788. " *oblanceaelimba* ined.
✓18821. " *paramillana* ined.
✓19163. " *pereskiaeefolia santa-martae* C. DC.

- ✓19166. Peperomia adscendens C. DC.
✓19956. " vi~~y~~^yidi-violacea ined.
✓19973. " mesmeaya n. sp.
✓19995. " ob lancea elimba ined.
✓20102. " undulatifolia n. sp.
✓20161. " lustrica n. sp.
✓20178. " subquadrifolia ined.
✓20315. " pica-picana n. sp.
✓20419. " rea n. sp.
✓20640. " haticoana n. sp.

These nos. are in G. H. under these determinations made by
C. A. W., though he was
not "officially" naming Kileip & Smith *Colombia*
This collection.

- v120077 *Polyodium fraxinifolium* Jacq., aff.
- v15957 " " "
- v15057 " " " aff.
- v120191 " *pecinatifolium* Lindm.
- v15642 " *moniliforme* Lag.
- v16902 " *pecinatum* L.
- v16438 " *fraxinifolium* Jacq.
- v16569 " *pecinatum* L.
- v19284 " " "
- v16582 " *adnatum* Kze.

Kileip & Smith *Colombia*

- v15607 *Polyodium muronum* Hook.
- v17345 " " "

Jan. 23, 1930.

Kelley & Smith Co., Fla.

✓ 19997 - *Polypteronum revolutum* Kl.

✓ 17836

✓ 19202

✓ 18705

✓ 20377

✓ 1661

✓ 16985

✓ 15011 *Athyrium villosa* N. & B. ex Willd.

Leucostichon L.

rebus stabl.

Polypteronum L.

SMITHSONIAN INSTITUTION
UNITED STATES NATIONAL MUSEUM
WASHINGTON, D. C.

October 22, 1928.

Dr. B. L. Robinson,
Gray Herbarium of Harvard University,
Cambridge, Massachusetts.

Dear Doctor Robinson:

Doctor Trelease has named the Piperaceae of the Killip-Smith collection which were not represented in his duplicate set, but which were in ours. There still remain the true unicates occurring in the Gray Herbarium set, and which I believe you are to send him.

Sincerely yours,

Ellsworth P. Killip

Ellsworth P. Killip
Associate Curator,
Division of Plants.

Enclosure.

May

Peperomia

- ✓ 15324 P. nefanda n. sp.
✓ 15502 P. discilimba
✓ 15608 P. Paramillana Trel.
✓ 15975 P. Causaria n. sp.
✓ 16435 P. transformata n. sp.
✓ 16616 P. chartana heterophylla n. v.
✓ 16637 P. subquadrifolia ined.
~~✓ 17178. 17100~~
✓ 17286 P. microphylla?
✓ 18328 P. egregia n. sp.
✓ 19008 P. obtextibacca n. sp.
✓ 19926 P. discistyla
✓ 20442 P. pamplonana
o ✓ 20439 P. Albert-Smithii pilinervia n. v.
o ✓ 20439 P. rasa n. sp.

✓ 17100. *P. immolata* Trel. n. sp.

Piper

- ✓ 15061 P. pervulsum n. sp.
✓ 15144 P. epunctatifolium n. sp.
✓ 16321 P. patratum n. sp.
✓ 16651 P. porricolor
✓ 16722 P. leucostachyum
✓ 16725 P. suratanum pallens n. v.
✓ 18125 P. Monticola
✓ 20412 P. abjectum n. sp.
✓ 20443 P. tenebricum n. sp.
✓ 21030 P. tuberculatum (Venezuela).

Corrections to previous list of determinations of
Killip-Smith Collection

- ✓ 15673. Valeriana stenophylla Killip (net 15675)
✓ 16574. Lantana trifolia L. (net 16564)
✓ 19011. Piper fastidium Trel. (net 19001)
✓ 15714, 15729, 17346, ✓ 17419, ✓ 17711, ✓ 17922, 18475, 18512, 19540,
✓ 19541/ Peperomia paramillana Trel/ (rather than *P. paramillo*)

Determinations made at the Gray Herbarium by L. B. Smith

Hitchcock

- 16,932 *Xiphidium coeruleum* Aubl.
- 17,596 *Justicia secunda* Vahl
- 20,406 *Guzmania lingulata* (L.) Mez, forma
- 21,120 *Aechmea pyramidalis* Benth.

Killip & Smith

- 15,170 *Anthurium scandens* (Aubl.) Engl.
- 15,177 *Cyperus Lagunetto* Steud.
- 15,291 *Guzmania sphaeroidea* André ex Mez
- 15,326 *Tillandsia Schultzei* Harms
- 17,115 " *heterandra* André
- 18,948 " *Restrepoana* André
- 18,990 *Guzmania mitis* B. B. Smith, n. sp.
- 20,195 " " " " "

Pennell et als. (Colombia)

- 2423 *Columnea aurantiaca* Dcne.
- 5059 *Guzmania compacta* Mez
- 5082 " *Eduardi* André
- 5747 *Thecophyllum capituligera* (Griseb., L. B. Smith
- 5804 *Thecophyllum hygrometricum* (André) Mez
- 9223 *Tillandsia complanata* Benth.
- 9362 *Guzmania gloriosa* André 11592 *Guzmania gracilior* (André) Mez
- 11783 *Sodiroa dissitiflora* André
- 12576 *Greigia sphacelata* (R. & P.) Regel
- 13675 *Stevia cuzcoensis* Hieron.? (Det. B. L. Robinson)

- 11736 { *Vriesia paniculata* (L.) Mez (Pennell)
" *Alfarovii* Mez (Killip)

Pittier

- 7161 *Cyphomandra caracasana* Sendtn.
- 7469 *Gloxinia pallidiflora* Hook.
- 7593 *Pothomorphe peltata* (L.) Miq. 22588 *Ruellia ventricosa* HBK.
- 7627 " *Ruellia Humboldtiana* Kl. 23283 *Amicia glandulosa* HBK.
- 7508 *Corytholoma elatius* (HBK.) Fritsch.
- 7757 *Myrcia paivae* Berg.
- 8121 *Monopyle leucantha* Moritz ex Benth.
- 8123 " " " "
- 8212 *Gloxinia pallidiflora* Hook.
- 9091 *Bromelia humilis* Jacq.

Rose et al

- Killip & Smith Stevias determined by B. L. Robinson.
- 21,673 *Stevia Weberbaueri* Robinson
 - 21,768 " *Macbridei* Robinson
 - 22,288 " *Herrerae* Robinson

- 14600. *Azolla filiculoides* Lam.
✓ 14863. *Adiantum tomentosum* Kl.
✓ 14867. *Trichomanes Ankersii* Parker
✓ 15109. *Dicranopteris flexuosa* (Schrad.) Underw.
✓ 15110. " *lanuginosa* (Moric.) Maxon
✓ 16207. *Adiantopsis chlorophylla* (Sw.) Féé
✓ 16360. " " " "
✓ 16369. *Polypodium phyllitidis* L.
✓ 16638. *Trichomanes diaphanum* Kth. var. *eximum* (Kunze) Hieron.
✓ 18924. *Hypolepis viscosa* Karst.
✓ 19211. *Trichomanes diaphanum* Kunth var. *eximum* (Kunze) Hieron.
✓ 19368. *Hypolepis Stuebelii* Hieron.
✓ 19929. *Trichomanes tenerum* Spreng.
✓ 19952. " *diaphanum* Kunth var. *eximum* (Kunze) Hieron.
• 19968. *Botrychium cicutarium* (Sav.) Sw.
✓ 19996. *Trichomanes tenerum* Spreng.
✓ 20233. " *rigidum* Sw.
✓ 20272. *Hypolepis viscosa* Karst.
✓ 20424. *Trichomanes pyxidiferum* L.
✓ 20440. *Diplazium flavescentia* (Mett.) Christ
✓ 20672. *Hypolepis viscosa* Karst.
✓ 21177. *Botrychium cicutarium* (Sav.) Sw.
22161. *Notholaena flavens* (Sw.) Moore
22256. " *bonariensis* (Willd.) C. Chr.
22363. *Diplazium brasiliense* Rosenst.
22386. *Polypodium lapathifolium* Poir.
22401. " " "
22406. *Trichomanes tenerum* Spreng.
✓ 22482. *Pityrogramma ferruginea* (Kunze) Maxon
22654. *Cyathea cuspidata* Kunze
22667. *Pityrogramma ochracea* (Presl) Domin
22697. " *austroamericana* Domin
22925. *Adiantum latifolium* Lám.
23379. *Lygodium polymorphum* (Cav.) H.B K.
23439. " " " "
23495. *Pityrogramma ochracea* (Presl) Domin
23553. *Diplazium flavescentia* (Mett.) Christ
23781. *Polypodium trichiatum* Rosenst.
23801. *Pityrogramma austroamericana* Domin

Killip & Smith ferns
det. Maxon.

- 23995. *Hemitelia escuquensis* Karst.
- 24014. " " "
- 24462. *Diplazium divergens* Rosenst.
- 24492. *Trichomanes tenerum* Spreng.
- 24536. *Diplazium arboreum* (Willd.) Presl
- 24541. *Alsophila floribunda* Hook.?
- 24572. *Hemitelia escuquensis* Karst.
- 24579. *Alsophila floribunda* Hook.?
- 24643. " *conjugata* Spruce
- 24645. " *floribunda* Hook.?
- 24984. *Pityrogramma austroamericana* Domin
- 25015. *Lygodium polymorphum* (Cav.) H.B.K.
- 25268. *Polypodium trichiatum* Rosenst.
- 25309. *Trichomanes sphenoides* Kunze?
- 25421. *Pityrogramma ochracea* (Presl) Domin
- 25471. *Diplazium procerum* Sod.
- 25499. *Trichomanes tenerum* Spreng.
- 25549. " " "
- 25709. *Doryopteris lomariacea* (Kunze) Kl.
- 25760. *Hypolepis parallelogramma* (Kunze) Presl
- 26169. *Alsophila lasiosora* Mett. !
- 26374. " " "
- 26555. *Trichomanes Ankersii* Parker
- 26592. " *sphenoides* Kunze
- 26647. *Polypodium trichiatum* Rosenst.
- 26781. *Diplazium Eggersii* Sod.
- 26975. *Alsophila microdonta* Desv.
- 27070. " " "
- 27117. " *procera* (Willd.) Desv.
- 27120. " " " "
- 27256. " *microdonta* Desv.
- 27332. " *procera* (Willd.) Desv.
- 27788. *Trichomanes sphenoides* Kunze
- 27808. *Polypodium trichiatum* Rosenst.
- 27900. *Anetium citrifolium* (L.) Splitg.
- 28072. *Alsophila procera* (Willd.) Desv.
- 28189. " " " " "
- 28272. " " " " "
- 28496. " " " " "
- 28642. *Polypodium trichiatum* Rosenst.
- 28758. *Alsophila procera* (Willd.) Desv.
- 28819. *Polypodium phylliditis* L.
- 28872. *Trichomanes sphenoides* Kunze
- 28881. *Anetium citrifolium* (L.) Splitg.
- 28911. *Diplazium Eggersii* Sod.
- 28951. *Polytaenium cayennense* (Desv.) Benedict
- 29207. *Hypolepis parviloba* Fée
- 29219. *Dicranopteris bifida* (Willd.) Maxon
- 29377. *Alsophila procera* (Willd.) Desv.
- 29522. *Trichomanes Hookeri* Presl
- 29612. *Alsophila procera* (Willd.) Desv.

- K.C.S.
- ✓14292. *Lygodium polymorphum* (Cav.) H. B. K.
 - ✓14299. *Dryopteris subtetragona* (Link) Maxon
 - ✓14358. " " " "
 - ✓14837. *Lindsaya falcata* Dry.
 - ✓14868. *Leptochilus guianensis* (Aubl.) C. Chr.?
 - ✓15011. *Anemia villosa* H. & B.
 - ✓15035. *Lindsaya stricta* (Sw.) Dry.
 - ✓15129. " *horizontalis* Hook.
 - ✓15130. " " "
 - ✓15150. *Vittaria stipitata* Kunze
 - ✓15271. " " "
 - ✓15508. *Polypodium sinerascens* Lindm.
 - ✓15697. *Asplenium cladolepton* Féé
 - ✓15854. *Polypodium strictissimum* (Hook.) Hieron.
 - ✓15904. *Dicranopteris velata* (Kunze) Maxon
 - ✓15910. *Polypodium meridense* Kl.
 - ✓15929. *Asplenium cladolepton* Féé
 - ✓15948. " *nastatum* Kl.

Killip & Smith
Determinations from
Dr. Maxon

Killip & Smith Killip & Smith, Colombia.

19371 ✓ *Bleularia acutifolia* Benth.

19854 ✓ 20024 *B. nitens* Fritsch

(John)

South American Ferns-2

- ✓17151. *Asplenium cladolepton* Féé
✓17259. " " "
✓17712. " " "
✓17757. " " "
✓17768. " " "
✓18197. " " "
✓18428. " " "
o ✓18495. " " "
✓18507. " *triphyllum* Presl?
✓18516. " *cladolepton* Féé
✓18518. *Polypodium cinerascens* Lindm.?
✓18770. *Vittaria Ruiziana* Féé
✓19202. *Polypodium semihiatus* Kl.
✓19613. *Asplenium cladolepton* Féé
✓19789. *Polypodium leucolepis* Kl.
✓19974. *Asplenium hastatum* Kl.
✓20627. *Polypodium meridense* Kl.
o ✓20805. *Asplenium* sp. Near *A. cristatum* Lam.
✓20811. *Dryopteris subtetragona* (Link) Maxon
✓21149. *Polypodium meridense* Kl.
o * ✓21169. *Asplenium cladolepton* Féé
Peru
22065. " *triphyllum* Presl
22473. *Polypodium cinerascens* Lindm.
22529. *Dryopteris opposita* (Vahl) Urban
22628. *Dryopteris Bangii* C. Chr.?
22725. " *Warmingii* C. Chr.
22782. *Asplenium abscissum* Willd.
22835. " " "
22838. " sp. Near *A. cristatum* Lam.
22918. " *erectum* Bory (sens lat.)
23071. *Dryopteris opposita* (Vahl) Urban
23632. " *Warmingii* C. Chr.
23660. " " "
23728. " " "
23795. *Polypodium plumula* H. & B.
23863. *Diplazium*
23898. *Polypodium fraxinifolium* Jacq.
23966. *Lindsaya falcata* Dry.
23973. *Diplazium pinnatifidum* Kunze
24319. *Elaphoglossum tectum* (H. & B.) Moore
24587. *Vittaria stipitata* Kunze
24698. *Lindsaya falcata* Dry.
24925. *Diplazium arboreum* (Willd.) Presl
25047. *Polypodium plumula* H. & B.
25169. " " "
25184. *Leptochilus Lindigii* (Mett.) C. Chr.
25195. *Dryopteris opposita* (Vahl) Urban
25233. " " " "
25246. *Tectaria martinicensis* (Spreng.) Copel.
25332. *Dryopteris opposita* (Vahl) Urban (form)
25351. *Asplenium cristatum* Lam.?
25382. *Polypodium plumula* H. & B.
25505. *Asplenium abscissum* Willd.
25522. *Lindsaya horizontalis* Hook.

Wm

25534. *Struthiopteris ensiformis* (Liebm.) Brodh.
25552. *Vittaria Gardneriana* Fee
25560a. *Asplenium tricholepis* Rosenst.
25939. *Polypodium meridense* Kl.
25970. *Asplenium integrifolium* Spreng.
26158. *Leptochilus guianensis* (Aubl.) C. Chr.
26162. *Lindsaya falcata* Dry.
26516. *Tectaria martinicensis* (Spreng.) Copel.
26572. *Leptochilus guianensis* (Aubl.) C. Chr.
26633. *Asplenium adscissum* Willd.
26679. " *integrifolium* Spreng.
26754. *Stenochlaena marginata* (Schrad.) C. Chr.
26769. *Leptochilus oligarchicus* (Baker) C. Chr.
27021. *Lindsaya lancea* (L.) Mett.
27665. *Dryopteris Fraseri* (Mett.) Kuntze!
27697. " " " " !
27826. " *dentata* (Forsk) C. Chr. (form)
27847. *Lygodium polymorphum* (Cav.) H. B. K.
28478. *Dryopteris brachyodus* (Kunze) Kuntze
28495. *Leptochilus serratus* (Kuhn) C. Chr. !!
28608. *Asplenium serratum* L. (A small form)
28615. " " " (form)
28822. " " " (A small form)
29140. *Danaea elliptica* J. E. Sm.
29348. *Asplenium haplophyllum* Domin
29437. *Dryopteris megalodus* (Schk.) Urban
29674. *Leptochilus guianensis* (Aubl.) C. Chr.
29721. *Dryopteris megalodus* (Schk.) Urban
30178. *Lindsaya lancea* (L.) Mett.
30316. *Leptochilus meniscioides* (Willd.) Presl
30339. *Lygodium volubile* Sw.
30350. *Polytaenium cayennense* (Desv.) Benedict
30676. *Lindsaya lancea* (L.) Mett.
30698. *Asplenium angustum* Sw.

Wm

Killip & Smith Ferns named at Berlin

- ✓ 14830 *Selaginella pedata* Klotsch.
- ✓ 14843 " " "
- ✓ 14872 " *jungermannoides* (Gaud.) Spring
- ✓ 15484 " *Hoffmannii* Hieron.
- ✓ 16024 " *radiata* (Aubl.) Bak.
- ✓ 16567 " *mnioides* (Lieb.) A. Br.
- ✓ 17012 " *Bangii* Hieron.?
- ✓ 18114 " *Poeppigiana* (Hook. & Grev.) Spring
- ✓ 18280 " *radiata* (Aubl.) Bak.
- ✓ 18348 " " " "
- ✓ 18357 " *Poeppigiana* (Hook. & Grev.) Spring
- ✓ 19096 " *mnioides* (Lieb.) A. Br.
- ✓ 19261 " " " "
- ✓ 20402 " *Poeppigiana* (Hook. & Grev.) Spring
- ✓ 20934 " *Lindigii* A. Br.

4

Besleria

Killip & Smith, Colombia.

- ✓15961. *salicifolia* Fritsch
 ✓19324. *Kalbreyeri* Fritsch
 ✓19371. *solanoides* H.B.K.
 ✓19854. *reticulata* var. *venosa* Morton type
 ✓20024. " " " " "

Killip & Smith, Peru.

22666. *variabilis* f. *barbatula* Morton
 24086. *peruviana* var. *occulta* Morton type
 24718. *racemosa* Morton?
 25293. *variabilis* f. *pallida* Morton type
 25785. *racemosa* Morton?
 25817. " " "
 25822. " " "
 25955. *trichiata* Morton type
 26008. *racemosa* Morton?
 26100. *tetragularis* Ruiz
 26127. *variabilis* f. *barbatula* Morton type
 26332. " " " "
 26761. *racemosa* Morton?
 26935. *ignea* var. *loretensis* Morton
 27353. " " " "
 28337. " " " " " type
 28418. " " " " "
 29489. " " " " "
 29637. " " " " "
 29814. " " " " "
 29855. " " " " "

W. C. Ray

Killip-Smith (Colombia)

- Hydrocotyle
Det. Mathias
- ♦ 21215. *H. mexicana* C. & S.
 - ✓ 20004. *H.* "
 - ✓ 16932. *H.* "
 - ✓ 19207. *H.* "
 - ✓ 16571. *H.* "
 - ✓ 16023. *H. grossulariaefolia* Rusby? (leaves only)
 - ~~22323. *H. bonplandii glabra* Mathias~~
 - ~~23932. *H.* " "~~
 - ✓ Rose 23882. *H.* " *truncatiloba* Mathias
 - ✓ Rose 22596. *H.* " "

from E.P. (Rec'd)

Killip & Smith, Colombia
(Reported by U.S.N.M. Jan. 26, 1937)

Cestrum det. C.V.Morton; others as indicated

- ✓ 14259. *Martinella obovata* (H.B.K.) Bur. & Sch. (Det. Sandwith)
- ✓ 15520. *Oxalis oblongiformis* R. Knuth (Det. Knuth)
- ✓ 15839. *Cestrum cuneatum* Francey
- ✓ 16075. *Oxalis oblongiformis* R. Knuth (type)
- ✓ 18174. *Cestrum buxifolium* H.B.K.
- ✓ 18296. " *colombianum* Francey
- ✓ 18877. *Befaria glauca setosa* Mansf. & Sleumer (Det. Sleumer)
- ✓ 19067. *Petrea colombiana* Moldenke (Det. Moldenke)
- ✓ 19465. *Oxalis oblongiformis* R. Knuth (Det. Knuth)
- ✓ 20001. *Espeletia neriiifolia* (H.B.K.) Sch. Bip. (Det. A.C.Smith)
- ✓ 20347. *Saurauia pseudoxanthotricha* Busc.? (Det. Sleumer)
- ✓ 20417. *Cestrum strigillatum* R. & P.
- ✓ 20499. " *moritzii* Dunal
- ✓ 20663. *Plutarchia coronaria* (Linden) A.C.Smith (Det. A.C.Smith)
- 22199. *Cavendishia martii* (Meissn.) A.C.Smith (not *C. paniculata*;
det. A.C.Smith)
- 22432. " " " " " "

DIOSCOREA, GERANIACEAE, AND OXALIDACEAE, Det. R. Knuth.

February, 1931.

Killip & Smith--Colombia (additional determinations)

- ✓14964. *Dioscorea narinensis* Knuth (type)
- ✓15466. *Biophytum santanderense* Knuth (type)
- " 15705. *Geranium santanderiense* Knuth
- ✓17275. " "
- " 18538. " "
- ✓18648. " "

- Casearia*
- Killip & Smith 26256, 26675, 26662, 26491, 27122, 27276, 27304, 28551,
29796, 29950 *Carpotroche longifolia* (P. & E.) Benth.
29836, 29986 *Casearia lasiosperma* Triana (ex descr.)
27113, 29900 *Patrisia pyrifera* L.C.Rich.
26448, 28452, 28630, 28659, 29295, 29517,
29578, and 29692 *Casearia fasciculata* (R. & P.) Sleumer
28914 *Hasseltia laxiflora* (Benth.) Eichl.
29783 *Lunania cuspidata* Warburg
27736, 28015, 28753 *Casearia commutata* Briquet
28070, 28806 *Prockia* sp. aff. *septemnervia* Sprengel
23482, 26436 *Banara guianensis* Aubl.
28314 *Casearia macrophylla* Vahl
28422 *Mayna odorata* Aubl.
26393 " *echinata* Spruce
27666 *Casearia pavoniana* Sleumer (vel valde affinis)
27282 " *javitensis* HBK.
27375, 28460 *Casearia decandra* Jacq.
26977 *Casearia arborea* (L.C.Rich.) Urb. (sens. lat.)

South American Flacourtiaceae, det. Sleumer, 1934

The names on various sheets disagree with the names recently
distr. from the National Herbarium, and only such names are here
included, together with certain sheets not reported by the Nat. Herb.

Killip & Smith 26393 *Mayna echinata* Spruce (disagreement)
29923 Not Flacourtiaceous (")

- Killip & Smith, Colombia

Det. E. P. Killip unless otherwise noted, January 1944

- 14363. *Heliconia latispatha* Benth. (not *H. bihai*)
- 14454. *Odontocarya paupera* var. *canescens* Miers (not *Cissampelos preira*.)
- 14736. *Heliconia psittacorum* L. f. (Det. L. B. Smith)
- 14841. " " L. f.
- 15493. " *marginata* (Griggs) Pittier (Det. L. B. Smith)
- 15783, 15899, 20034. *Phytolacca rugosa* A. Br. & Bouché
- 17703. *Phytolacca bogotensis* H.B.K.
17875, 18497 (type) *Puya killipii* Cuatr.
- 18625. *Lycopodium*
- 18930. *Puya goudotiana* Mez (Det. L. B. Smith)
- 18994, 19178. *Solanum mutisii* Morton (rather than *S. monticola*; corr.
by Morton)
- 20740. *Dendrophthora biserrula* Eichl.
- 20815. *Struthanthus pyrifolius* (H.B.K.) G. Don
- 21216. *Juglans columbiensis* Dode

Pa

1 Killip & Smith, Colombia
Det. E. P. Killip unless otherwise noted, January 1944

14363. *Heliconia latispatha* Benth. (not *H. bihai*)
14434. *Odontocarya paupera* var. *canescens* Miers (not Cissampelos preira.)
14736. *Heliconia psittacorum* L. f. (Det. L. B. Smith)
14841. " " L. f.
15493. " *marginata* (Griggs) Pittier (Det. L. B. Smith)
15783, 15899, 20034. *Phytolacca rugosa* A. Br. & Bouché
17703. *Phytolacca bogotensis* H.B.K.
17875, 18497 (type) *Puya killipii* Cuatr.
18625. *Lycopodium*
18930. *Puya goudotiana* Mez (Det. L. B. Smith)
18994, 19178. *Solanum multisili* Morton (rather than S. monticola; corr.
by Morton)
20740. *Dendrophthora biserrula* Eichl.
✓ 20815. *Struthanthus pyrifolius* (H.B.K.) G. Don
21216. *Juglans columbiensis* Dode

Killip-Smith. ✓ *Endlicheria* S. J. van Oostström
16436. *Endlicheria longifolius* (Chois.) v. Oost.

• 14315, 14522, 20994. *E. cardiophyllus* Schlecht.

Current South American collections identified at U. S. National Museum,
May 1935.

Gesneriaceae (Det. C. V. Morton)

Killip & Smith

27393. *Codonanthe formicarum* Fritsch
29647. *Codonanthopsis Ulei* Mansfeld
23084. *Alloplectus speciosus* Poepp. & Endl.
25935. " " "
25755. " " "
22988. " *pendulus* Poepp. & Endl.
25650. " " " ? Our specimen sterile.
25725. " " "
29506. " *semicordatus* Poepp. & Endl.
25953. *Alloplectus speciosus* Poepp. & Endl.
26049. " " "
26389. *Codonanthopsis Ulei* Mansfeld
26869. *Codonanthe Uleana* Fritsch
26934. *Alloplectus circinnatus* Mast.
26961. *Codonanthe Uleana* Fritsch
27042. *Alloplectus circinnatus* Mast.
27419. *Codonanthe formicarum* Fritsch
29166. *Codonanthe Uleana* Fritsch
29182. " *peruviana* Morton n. sp. type
29211. " " "

- Killip & Smith
16096. *Asplenium raddianum* Gaud.
 16652. " "
 18198. " *sessilifolium* Desv.
 19191. " *raddianum* Gaud.

5275, 1683.
Dryopteris pernoilis
 Max. & Mart.

Killip & Smith 20407. *Cyathea divergens* Kunze

Killip & Smith 15468, 16534, 17456, 19241, 19630, 20059, 20668. *Calea caracasana* (H.B.K.) Kuntze (Det. Blake) Nos. 17296, 18811, 20009 are all forms of the same.

Current South American Collections

(Reported by U.S.N.M., September 1940; det. E. P. Killip, unless otherwise stated)

Killip & Smith - Colombia

15013. *Tradescantia multiflora* Sw. (Det. Morton; not *T. cumanensis*)
 15299. *Paepalanthus killipii* Moldenke (type)
 17339. *Heliopsis lanceolata* Blake (type)
 17905. " "
 20622. *Paepalanthus paramensis* Moldenke (type)

Killip & Smith - Brazil

30080. *Mimosa xinguensis* Ducke (rather than *M. spruceana*)
 30242. *Chamaecrista brwniana* B. & R. (not *C. mimosoides*)
 30283. *Chamaefistula chrysocarpa* (Desv.) B. & R. (not *C. quinquangulata*)
 30519. *Guatteria paraensis* Fries (Det. Fries)
 30644. *Machaerium macrophyllum* Benth.

Aristolochia (Det. O. C. Schmidt) Reported by U. S. N. M.

June 6, 1935.

Aristolochia Killip Smith 14270. A. loriflora Mast. (not A. inflata)
14541. //

from
April

Killip - Smith, Colombia

- ✓15077. M. rupestris H. B. K. Det. O. C. Schmidt
✓15568. M. smithii Chod. (Type)
✓16625. M. elongata Pl. & Lind.
✓19231. M. aestuans DC.
✓20555. M. nemorosa H. B. K.

Killip & Smith

- ✓16773. Acnistus aggregatus (R. & P.) Miers
✓16952. Iochroma gesnerioides (H.B.K.) Miers
✓17650. Poecilochroma quitense (Hook.) Miers
✓18958. Iochroma gesnerioides (H.B.K.) Miers
1935 ✓ Acnistus aggregatus (R. & P.) Miers Det. C. V. Merleau
✓19526. Iochroma gesnerioides (H.B.K.) Miers
✓20021. Acnistus aggregatus (R. & P.) Miers
✓20327. Merinthopodium campanulatum D. Sm.

1935/

Killip & Smith ✓

- ✓15191, 15362, 16167. Steiractinia schlimii Blake (Det. Blake)
✓15366. Steiractinia lucidula Blake (type)
✓17997. " klattii (Rob. & Greenm.) Blake (Det. Blake)

Killip-Smith Colombia

Dioscorea

(Det. R. Knuth)

- ✓14171. *D. polygonoides* H. & B.
- ✓14629. " "
- ✓14684. " "
- ✓16719. " *suratensis* R. Knuth (type)
- ✓18326. " *martensis* R. Knuth
- ✓18962. " *meridensis* Kunth
- ✓19157. " "
- ✓20198. " *polygonoides* [✓]*matinicensis* (Spring.) R. Knuth
- ✓20823. " " H. & B.

Killip-Smith Colombia.

(Det. C. V. Morton)

- ✓16160. *D. lehmannii* Uline
- ✓20374. " "

Apr 4, 1938
from W.P.M.

- ✓15121. *Struthiopteris cordata* (Desv.)
- ✓15558. *Diplazium grandifolium* Sw. (det. Morton)
- ✓15652. *Psilogramme elongata* (Hook. & Grev.) Kuhn
- ✓15758. " *flexuosa* (Desv.) Kuhn
- ✓15812. " " " "
- ✓15858. *Polypodium acrodontum* Féé (det. C. A. W. 1934)
- ✓15928. *Psilogramme retrofracta* (Hook.) Maxon
- ✓16851. *Cheilanthes myriophylla* Desv.
- 17222. *Psilogramme retrofracta* (Hook.) Maxon?
- ✓17439. *Cheilanthes myriophylla* Desv.
- ✓17815. *Dicksonia Karsteniana* (Kl.) Moore (det. C. A. W., 1934)
- ✓17854. *Dicksonia Karsteniana* (Kl.) Moore (det. C. A. W., 1934)
- ✓17947. *Struthiopteris loxensis* (Kunth) Maxon
- ✓18095. *Dicksonia Karsteniana* (Kl.) Moore (det. C. A. W., 1934)
- ✓18195. *Psilogramme hirta* (H.B.K.) Kuhn
- 18463. *Struthiopteris loxensis* (Kunth) Maxon
- 18500. " *Schomburgkii* (Kl.)
- 18506. *Psilogramme flexuosa* (Desv.) Kuhn
- ✓18667. " *elongata* (Hook. & Grev.) Kuhn
- 18678. " *flexuosa* (Desv.) Kuhn
- ✓18739. *Polypodium moniliforme* Lag. (det. C. A. W., 1934)
- ✓18949. *Dicksonia Karsteniana* (Kl.) Moore (det. C. A. W., 1934)
- 19607. *Psilogramme flexuosa* (Desv.) Kuhn
- ✓19852. *Struthiopteris meridensis* (Kl.)
- ✓19887. *Dicksonia Karsteniana* (Kl.) Moore (det. C. A. W., 1934)
- ✓20670. " " " " " "

Killip & Smith

- ✓15788. *Vaccinium corymbodendron* Dunal (18383 evidently goes here too. -E.P.K.)
- ✓16766. " "
- ✓16767. " "
- ✓16770. *Befaria glauca setosa* Mansf. & Sleumer
- ✓16907. *Vaccinium corymbodendron* Dunal
- ✓17609. " *floribundum ramosissimum* (Dunal) Sleumer
- ✓17949. *Disterigma empetrifolium* (H.B.K.) Drude
- ✓18322. *Saurauia excelsa xanthotricha* (Turcz.) Busc.
- ✓18468. *Vaccinium floribundum ramosissimum* (Dunal) Sleumer
- ✓18825. *Saurauia excelsa* Willd.
- ✓18880. *Befaria glauca setosa* Mansf. & Sleumer
- ✓18894. *Vaccinium meridionale* Sw.
- ✓18909. " *corymbodendron* Dunal
- ✓19083. *Befaria glauca setosa* Mansf. & Sleumer

det. H. Sleumer

Siphocampylus Killip & Smith 16993, 16168, 19250, 19244, 17091, 19437, 16610, 16513,
19255, 16779, 17051, 17999, 19018, 18856, 15480, 17455, 21164,
phyllobotrys Wim. Also 16545.

Killip & Smith 15375, 16742 phyllobotrys Wim. f. nudus Wim.
16549 phyllobotrys Wim. var. leucanthus Wim.
20591, 20718, 20576, 20353, 20320 laevigatus Planch.
17271, 18176, 17926, peritornus Wim.
17820, 17849, 17704, 17767, 17778, 17818, 17828,
and 17270 peritornus Wim. var. ricensis Wim.
15976 tuberculatus Wim. var. carmesinus Wim.
✓20774 Planchonis Wim.

19627 Ellsworthi Wim. TYPE NUMBER
20549 brevipedicellatus TYPE NUMBER

Killip & Smith 20717 Flos-Mutisii Wim.

Centropogon 20585 Flos-Mutisii Wim. f. haticensis Wim.

20005 pamplonensis Wim.
18848, 19205, 19977, 20226 pamplonensis Wim. var. frantellus Wim.

2007 20074 tenuifolius Wim. TYPE NUMBER
19754 belliflorus Wim.

17823 pyropus Wim. TYPE NUMBER

15581 aureo-ruber Wim. TYPE NUMBER

Killip-Smith 22512. *Siphocampylus eurocinctus* Wimmer

22643. *Centropogon urubambae estrellanus* Wimmer (type)

25772. " capitatus Drake

25918. " latifolius Wimmer (type)

26146. " sciaphilus AQZ Zahlbr.

KS. 27382. *Alternanthera lanceolata* (Benth.) Schinz

Lobeliaceae, det. Wimmer

Reported by Adhem
June 1937

° Killip-Smith 19967. *Centropogon microcalyx* Wimmer (type)

20234. *Burmeistera puberula* Wimmer (type)

Det. Kostermans:

KS. 28400. *Endlicheria debilis* Kosterm. (type NY), not *E. mishuyacensis*

28050. *Endlicheria rubriflora* Mez, not *Aniba reticulata*.

Araliaceae, det. Harms (Current South American collections)

Reported by U.S.Nat.Mus. July 7, 1937.

Killip & Smith, Colombia

- 17775. *Oreopanax cyclophyllus* Harms (type)
- 17864. " *reticulatum* (Willd.) Dcne. & Planch.
- 18376. " *santanderianus* Harms (type)
- ✓18680. " *cf. incisum* (Willd.) Dcne. & Planch.
- ✓18687. " *killipii* Harms (type)
- ✓19954. " *coriaceus* Dcne. & Planch.
- 20324. " *cf. capitatus* Dcne. & Planch.

Killip & Smith:

- ✓14588. *Psittacanthus Warmingii* Eichl.
- ✓15056. *Siparuna pectinata* A.C.Smith, not. *S. macrophylla*.
- ✓15455. *Struthanthus orbicularis* (HBK.) Blume
- ✓15681. *Gaultheria santanderensis* A.C.Smith
- ✓15810. *Aetanthus columbianus* A.C.Smith
- ✓15825. *Gaultheria vegasana* A.C.Smith (type)
- ✓16689. *Struthanthus calophyllus* A.C.Smith (type)
- ✓17215. *Gaultheria santanderensis* A.C.Smith
- ✓17273. *Gaultheria ramosissima* Benth.
- ✓17303. *Gaultheria santanderensis* A.C.Smith (type)
- ✓17427. *Gaultheria ramosissima* Benth.
- ✓17580. *Gaultheria* " "

K. & S. f.

- ✓17663. *Gaultheria santanderensis* A.C.Smith
- ✓17683. *Gaultheria ramosissima* Benth.
- ✓17743. " " "
- ✓17745. *Gaultheria santanderensis* A.C.Smith
- ✓17795. *Aetanthus columbianus* A.C.Smith
- ✓18127. " " "
- ✓18185. *Gaultheria ramosissima* Benth.
- ✓18442. " " "
- ✓18469. " " "
- ✓18562. " " "
- ✓19026 (N). *Struthanthus dichotrianthus* Eichl. vel valde aff.
- ✓19101. *Siparuna Trianaei* A.DC.v.*latifolia* A.DC., ex char.,
not. *S. echinata*.
- ✓19131. *Struthanthus dichotrianthus* Eichl. vel valde aff.
- ✓19626 (N). *Gaultheria hapalotricha* A.C.Smith (type)
- ✓20020. *Phthirusa gonioclada* A.C.Smith
- ✓20330. *Siparuna tapatana* A.C.Smith (type)
- ✓20399. " " "
- ✓20537. *Phthirusa gonioclada* A.C.Smith (type)
- ✓20583. *Aetanthus columbianus* A.C.Smith (type)
- ✓21135. *Siparuna pectinata* A.C.Smith (type)

Killip & Smith, Colombia

Heuchera

- ✓15680. *H. purdieana congesta* Allen, n. var.

- ✓15679. *H. adpressa* Allen, n. sp.

- ✓17485. *H. purdieana congesta* Allen, n. var.

- ✓17558. *H.* " " " " " 17516. *H. gigantea* Allen, n. sp.

- ✓17604. *H.* " " " " " 17521. *H.* " " " " "

- ✓17662. *H.* " " " " " 17566. *H.* " " " " "

- ✓17722. *H.* " Wedd.

- ✓17982. *H.* " *congesta* Allen, n. var.

- ✓18229. *H.* " Wedd.

- ✓18426. *H.* " "

- ✓18466. *H. purdieana* Wedd.

- ✓18544. *H.* " "

- ✓18546. *H.* " "

- ✓18568. *H. elegans* Allen, n. sp.

- ✓18665. *H. purdieana* Wedd.

- ✓18688. *H.* " "

- ✓19551. *H.* " *congesta* Allen, n. sp.

- ✓19723. *H. kalbreyeri* Gilg.

Killip & Smith, Colombia

- ✓ 14052. *Malvaviscus arboreus* Cav.
- ✓ 14773. *Commelina elegans* H.B.K.
- ✓ 14774. *Cestrum scandens* Vahl (Det. Francey)
- ✓ 15387. *Tradescantia gracilis* H.B.K.?
- ✓ 15530. *Escobedia grandiflora* L.f. (Det. Pennell)
- ✓ 15691. *Cestrum melanochloranthum* Dunal (Det. Francey)
- ✓ 15805. *Sisyrinchium convolutum* Nocca?
- ✓ 16079. *Hydrangea durifolia* Briq.?
- ✓ 16431. *Cleome gigantea* L.?
- ✓ 17059. *Viburnum tinoides* L.f.
- ✓ 17068. *Tradescantia cumanensis* Kunth?
- ✓ 18181. *Ranunculus cymbalaria* Pursh
- ✓ 18188. *Aragoa lycopodioides* Benth. (Det. Pennell)
- ✓ 18287. *Commelina elegans* H.B.K.
- ✓ 18366. *Hydrangea goudotii* Briq.
- ✓ 19048. *Norantea mixta* Tr. & Planch.?
- ✓ 19204. *Gynandropsis hirsuta* Moldenke?
- ✓ 19649. *Geranium killipii* Knuth (type)
- ✓ 19679. *Carica candamarcensis* Hook. f.?
- ✓ 19686. *Dendrophthora clavatum* (Benth.) Urban
- ✓ 20375. *Tovaria pendula* R. & P.
- ✓ 20477. *Hydrangea durifolia* Briq.?
- ✓ 20951. *Desmodium tortuosum* (Sw.) DC.
- ✓ 18278. *Hypericum thesiifolium* H.B.K.
- ✓ 17172. " " "
- ✓ 19684. " " "
- ✓ 20487. " " "
- ✓ 18380. " " "

Killip & Smith 20324 *Yalbreyeri* Wim. var. *tapatana* Wim. Burmeistera

Lobelia

Killip & Smith 19632 *subpubera* Wedd., var. *Weberbaueri* (Zahlbr.) Wim.
19567, 17682, 17554 *gryllorum* Wim. 19567 is the type.

- ✓ Killip & Smith ✓ 14924. *Dryopteris serrata* (Cav.) C. Chr. Det. by Maxon & Morton
- ✓ 15248. " *permollis* Maxon & Morton
 - 22945. " *consobrina* Maxon & Morton
 - 23514. "
 - 23890. " *jurgensenii* (Fee) Maxon & Morton
 - 24087. " *consobrina* Maxon & Morton (type)
 - 24651. " *ensiformis* C. Chr.
 - 25570. " *jurgensenii* (Fee) Maxon & Morton
 - 27036. " *serrata* (Cav.) C. Chr.
- not listed at
Greg HB.

Killip-Smith. Colombia

- ✓15080. *Ficus popayanensis* Standl.
- ✓16411. " "
- ✓16667. *Cecropia* (doubtless sp. nov.)
- ✓19046. *Ficus popayanensis* Standl.
- ✓20282. " "
- ✓20508. " "
- ✓20852. *Cecropia humboldtiana* Kl.
- ✓14243. *Cecropia*, probably new, but our specimen without infl.

Killip & Smith, Colombia

Senecio

- ✓15781. *S. magnusii* Hieron.
- ✓19912. *S. pulchellus* (H.B.K.) DC.
- ✓15823. *S. lindenii* Sch.Bip.
- ✓16906. "
- ✓17214. "
- ✓17268. "
- ✓18207. "
- ✓18429. "
- ✓18561. "

Current South American collections

Reported by U.S.N.M. Jan. 10, 1939.

Killip & Smith (Colombia)

- ✓14502. *Wissadula amplissima* (L.) R.E.Fr.
- ✓14260. *Martinella obovata* (H.B.K.) Bur. & Sch. (Det. Siebert)
- ✓15759. *Arenaria lanuginosa* (Mx.) Rohrb. (Det. Mattfeld)
- ✓18092. " " "
- ✓21116. " " "
- ✓16670. *Hieronyma scalera* (Tul.) Muell. Arg. (Det. Wheeler)
- ✓17639. *Carex jamesonii* Boott
- ✓20772. *Passiflora pulchella* H.B.K.? (Sterile)

(Peru)

- / 25415. *Amphilophium paniculatum* (L.) H.B.K. (Det. Seibert)
- ✓27583. *Aristolochia pannosa* Mast. (Cited by Schmidt)
- ✓29073. *Martinella obovata* (H.B.K.) Bur. & Sch. (Det. Seibert)
- ✓30528. *Cordia scabrifolia* A.DC. (Det. Johnston)

Not
listed
y. k.

Dec. 9, 1953.

KILLIP & SMITH EUPATORIEAE OF PERU DETERMINED AT THE GRAY HERBARIUM BY
B. L. ROBINSON

-
- 21,502 *Mikania micrantha* HBK.
21,542 *Eupatorium Sternbergianum* DC.
21,659 " " "
21,677 " " "
21,820 *Ophryosporus origanoides* (Meyen & Walp.) Hieron.
21,829 " " " " "
21,833 *Eupatorium tarmense* Robinson, spec. nov.
21,861 *Ophryosporus origanoides* (Meyen & Walp.) Hieron.
21,993 *Eupatorium Sternbergianum* DC.
22,150 " " "
22,154 " *connivens* Rusby
22,179 " *eucosmoides* Robinson
22,232 " *pampalicense* Robinson, spec. nov.
22,463 " *rhodotephrum* Robinson
22,688 " *microstemon* Cass., var. *perennans* Robinson, var. nov.
22,718 " *Maximiliani* Schrad.
22,736 *Mikania cordifolia* (L. f.) Willd.
22,793 " *guaco* H. & B.
22,851 " *micrantha* HBK.
23,113 " " "
23,319 *Ophryosporus origanoides* (Meyen & Walp.) Hieron.
23,337 *Eupatorium huantae* Robinson, spec. nov.
23,500 *Mikania micrantha* HBK.
23,735 *Eupatorium laevigatum* Lam.
23,793 " *mercedense* Robinson, spec. nov.

- 23,810 *Eupatorium squalidum* DC.
- 23,835 *Mikania cryptodonta* Robinson
- 24,090 *Eupatorium squalidum* DC.
 24,018 " *Maximiliani* Schrad
 24,091 " *callipepis* Sch.-Bip.
- 24,144 " *Gilbertii* Robinson
- 24,195 " *pycnocephalum* Less.
- 24,292 *Mikania Jelskii* Hieron.
- 24,388 *Ophryosporus piqueroides* (DC.) Benth.
- 24,625 *Eupatorium laevigatum* Lam.
- 24,768 *Mikania ferruginea* Rusby
- 24,894 " "*Lindbergii* Bak.?
 24,897 " "*Lindleyana* DC.
- 24,971 *Eupatorium squalidum* DC.
- 24,983 " *Maximiliani* Schrad.
- 25,115 " *squalidum* DC.
- 25,130 " *ivaefolium* L., var. *hirsutum* Hassk.
- 25,239 *Mikania cordifolia* (L. f.) Willd.
- 25,313 " *cryptodonta* Robinson
 25,439 " *infesta* Robinson, spec. nov.
 25,482 " *Lindleyana* DC.
- 25,493 " *yapasensis* Robinson, spec. nov.
- 25,626 " *Ruiziana* Poepp.
- 25,797 " *Macbridei* Robinson
- 25,800 " *desmocephala* Robinson, var. *peruviana* Robinson
- 25,824 " " " " "
- 25,827 *Eupatorium hylophorum* Robinson, spec. nov.
- 25,907 *Mikania Ruiziana* Poepp.
- 25,912 " *Macbridei* Robinson
- 25,933 *Eupatorium marginatum* Poepp.
- 26,071 *Mikania psilostachya* DC.
- 26,125 *Eupatorium beneolens* Robinson
- 26,304 " *elatum* Steetz
- 26,600 " " "

- 26,857 *Eupatorium Maximiliani* Schrad.
26,968 *Mikania Mathewsii* Robinson
27,080 " *iquitosensis* Robinson, spec. nov.
27,104 " *Lindleyana* DC.
27,168 " *micrantha* HBK., forma *congesta* (DC.) Robinson
27,355 " *parviflora* (Aubl.) Karst.
27,386 " *guaco* H. & B.
27,478 " *antioquiensis* Hieron.
27,556 " *Mathewsii* Robinson
27,949 " " "
28,326 *Eupatorium pyrifolium* DC.
28,616 *Mikania stygia* Robinson
28,844 " *parviflora* (Aubl.) Karst.
29,002 *Eupatorium elatum* Steetz
30,278 *Mikania* sp. ? (too young)
30,295 *Eupatorium Maximiliani* Schrad.
56 30,470 " " "

Killip & Smith

List sent Mrs. Killip Dec. 13, 1933 for
further determinations.

21,503 *Tessaria*

21,594 *Baccharis*

21,720

21,741 *Galinsoga*

21,853

21,866 *Baccharis*

21,994 "

22,160 *Verbesina*

22,250 *Baccharis*

23,312 "

23,458 "

23,566 *Tessaria*

24,215

24,395 *Baccharis*

24,742

24,793 *Vernonia*

25,112 *Baccharis?*

25,485

26,326

29,033 *Baccharis*

Apr. 4, 1935

Peru, Killip & Smith in 1929.

- 21511. *Azolla filiculoides* Lam.
- 21796. *Cheilanthes myriophylla* Desv.
- 23249. *Psilogramme elongata* (Hook. & Grev.) Kuhn
- 23895. *Diplazium grandifolium* Sw.?
- 24001. " " "
- 25508. " " "
- 25947. *Psilogramme Orbignyana* (Mett.) Kuhn

C. P. Killip Peru-Brazil
1929

Boraginaceae determined by I. M. Johnston

- Haught 256 *Heliotropium fruticosum* L.
21735 *Flagiobothrys humilis* (R. & P.) Johnston
22353 *Fuchsia Smithii*, n. sp.
23311 *Flagiobothrys humilis* (R. & P.) Johnston
23269 *Malvastrum Urbanianum* Ulbr.? specimen too mature,
no leaves
24459 Rubiaceae
25436 *Fuchsia sphaerocarpa*, n. sp.
25784 " " Johnston
26628 *Helictorium indicum* L.
30008 *Cordia silvestris* Fresen
30290 *Tournefortia bicolor* Sw.
30355 *Cordia nodosa* Lam.
30403 " *multispicata* Chari.
30425 " *scabrida* Mart.
30434 " " "

Rosaceae determined by Miss Perry

- 21559 *Acaena torilicarpa* Bitter
22113 *Alchemilla pinnata* R. & F.
22211 *Acaena ovalifolia* R. & F.
22224 *Alchemilla aphanoides* L. f.
23262 " *orbiculata* R. & F.
24407 *Acaena ovalifolia* R. & F.
30671 *Alchemilla pinnata* R. & F.

Determinations by C. A. Weatherby

- 21614 *Luzula racemosa* Desv., var. *humilis* (Buchenau) Castillon
22050 *Distichia muscoides* Noes & Meyen
22066 *Luzula boliviensis* Buchenau
25209 *Polypodium percussum* Cav.

cc

Miscellaneous South American Collections

Reported by U.S.N.M., Jan. 1944; det. E. P. Killip unless otherwise noted
Killip & Smith, Peru and Brazil

21848. *Portulaca peruviana* I. M. Johnst.
22502. *Siparuna exsculpta* Perk.
22657. *Phytolacca rivinoides* Kth. & Bouché
23815, 23827. *Mollinedia*
24271. *Cyperus tabina* Steud.
24876. *Palicourea jelskii* Standl. ? (Det. Standley)
25045, 26145, 28718. *Heliconia cannoidea* L. C. Rich.
25328. *phytolacca rivinoides* Kth. & Bouché
25634. *Phoradendron crassifolium* (Pohl) Eichl.
25705. *Epidendrum carnosiflorum* C. Schweinf. (type)
26849. *Rourea amazonica* Huber (Det. Leonard)
27197, 27919. *Liriosma spruceana* Engl.
27314. *Liriosma gracilis* A. C. Smith
27431. *Herrania nitida* (Poep.) R. E. Schultes, vel aff. (not
Theobroma mariae; corr. by Schultes)
27711. *Heliconia marginata* Griggs (Det. Griggs)
27729. *Neea virens* Poepp. (Det. Leonard)
27749. *Duguetia quitarensis* Benth.
28011. *Micropholis cylindrocarpa* (P. & E.) Pierre (Det. Gilly)
28234. *Herrania nitida* var. *sphenophylla* R. E. Schultes (Det. Schultes)
28248. *Neea parviflora* P. & E. (Det. Leonard)
28395. *Anaxagorea brevipes* Benth.
28431. *Unonopsis gracilis* R. E. Fries
28447. *Mollinedia latifolia* (P. & E.) Tul.
28537, 29770. *Unonopsis beneficiorum* (Mart.) Fries
28856. *Torrubia myrtifolia* Standl. (Det. Leonard)
29245. *Oryctanthus florulentus* (Rich.) Urban (not Pthirusa pyrifolia)
29304. *Unonopsis beneficiorum* (Mart.) Fries (cited in Fl. Peru as
29340 in error)
- 2/ 29343. cf. *Laciptema macbridei* Baehni [our specimen poor]
29759. *Lonchocarpus glabrescens* Benth. (Cited in Fl. Peru)
29803. *Duguetia quitarensis* Benth.
30034. *Prevostia ferruginea* Chois. (Det. Leonard)
30154. *Dalechampia micrantha* P. & E. (Det. Croizat)
30199. *Terebea paraensis* Huber
Pennell, Peru and Chile
12535. *Carex distenta* Kunze
13131. *Alternanthera arequipensis* Süsseng. (type)
14456. " *albo-tomentosa* Süss. (type)

J. M. Schunke 45. *Herrania nitida* var. *sphenophylla* R. E. Schultz (not
Theobromae mariae; corr. by Schultes)

Persaud 97. *Licania floribunda* Benth. (Det. Leonard)

I believe you have these:

Williams 12822. *Cathedra caurensis* Bittier (Det. Standley)

Killip 37819. *Siparuna pittieri* R. Knuth (but name only!)

Haught 3423. " *eggersii* Hieron.

Inst. Agr. Sao Paulo (Krug) 1591. *Nectandra grandiflora* Nees

Do you have there a record of the Pinkus collection? If so has his
194, probably an Annon. been named?

Flit No. 88, 26/9/29.

Killip.

Plants of Colombia

- 35462 *Spigelia Anthelmia* L.
34932 *Cochliostema odoratissimum* Barn.
33911 *Guzmania coriostachya* (Gris.) Mez
35230 " *musaica* (Linden) Mez
34978 " " " "
33664 *Ronnbergia maidifolia* Mez
33453 *Guzmania subcorymbosa* L.B. Smith
34934 *Aechmea Germiniana* (Carr.) Bak.
35225 " " " "
33930 *Tillandsia adpressa* André var. *Tonduziana* (Mez) L.B. Smith
34696 " *elongata* HBK.
33182 " *monadelpha* (E. Morr.) Bak.
34435 " *fasciculata* Sw.
34970 " *bulbosa* Hook.
35538 " *Valenzuelana* A. Rich.
33019 *Vriesia ringens* (Gris.) Harms
33454 *Guzmania*
35207 "
35245 *Pitcairnia*
33912 "
34153 *Puya*
33464 *Aechmea*
33018 *Vriesia gladioliflora* (Wendl.) Ant.
33871 *Impatiens sultani* Hook. f.
34605 *Luzula gigantea* Desv. det. C.A. Weatherby
34538 *Juncus Bufonius* L.
35031 *Costus cylindricus* Jacq.
35096 *Calathea colombiana* L.B. Smith, n. sp.
35229 " *Killipii* L. B. Smith n. sp.
33485 *Heliconia Bikai* L. sens lat.
34485 " *hirsuta* L. f. var.
35475 *Costus cylindricus* Jacq. var. *ciliata* (Fig.) O. G. Peters
33269 *Renealmia*
35289 " diseased?
33976 *Begonia foliosa* HBK.
33938 " " "
34817 " *parviflora* P. & E., var.
33602 " *heterodonta* Rusby
34820 " *cucullata* Willd.
34436 " *tovarensis* Kl.
34395 " *urticae* L. f.

Haught

- 2317 *Pitcairnia Schultzei* Harms
2774 "
2788 *Heliconia psittacorum* L. F.
2829 " *platystachys* Bak.
2770 " *hirsuta* L.f. var. *cannoidea* (L.C.Rich.) Bak.
2568 *Maranta tonckat* (Aubl.) Eichl.
2312 *Calathea macrosepala* K. Schum.

Mexia

6615 *Begonia Spruceana* A. DC.

Schunke

323 *Begonia Spruceana* A. DC.

Viegas

3057 *Calathea Eichleri* Peters

H. Garcia

5182 *Heliconia hirsuta* L.f. var. *cannoidea* (L.C.Rich.) Bak.

Cardenas

2060 *Heliconia Cardenasi* L.B.Smith

Cuatrecasas

1001 *Tillandsia recurvata* L.

1367 *Luzula gigantea* Desv. det. C.A.Weatherby

477 *Juncus bogotensis* HBK. " "